GYM FEES SCHEDULING SYSTEM

PROJECT REPORT

A Project work submitted Madurai Kamaraj University in partial

fulfilment of the requirements for the award of degree of
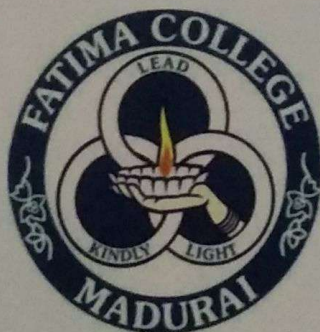
B.C.A (BACHELOR OF COMPUTER APPLICATIONS)

2021-2022

Submitted by

S. ABHIRAMI(Reg.No.2019BC01)

Under the Guidance of

Mrs. S. SELVARANI, MCA., M.Phil., NET., SET.,

DEPARTMENT OF COMPUTER APPLICATION

FATIMA COLLEGE (AUTONOMOUS)

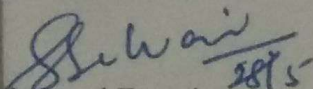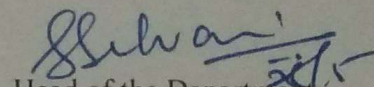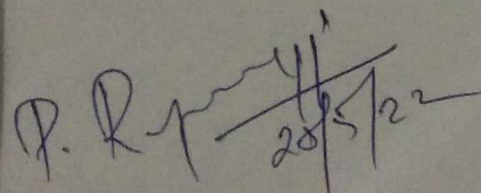## MADURAI-18

DEPARTMENT OF COMPUTER APPLICATIONS

BONAFIDE CERTIFICATE

This is to certify that the project entitled **"GYM FEES SCHEDULING SYSTEM"** is a bonafide record work done by **S. ABHIRAMI (2019BC01)** in partial fulfilment of the requirement for the award of the Degree of B.C.A. (Bachelor of Computer Applications), Fatima College during the academic year 2019-2022.

Internal Examiner

Head of the Department

Submitted for the Viva-Voice Examination held on ___28·05·2022___

External Examiner

DECLARATION

I hereby declare that the project work entitled **"GYM FEES SCHEDULING SYSTEM"** is a project report of the original work done by myself. This project work is submitted to Fatima College (Affiliated to Madurai Kamaraj University) in partial fulfilment of the Degree of Bachelor of Computer Application during the academic year 2019 -2022.

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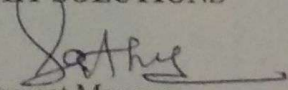Place: MADURAI

Date: 28·05·2022

Signature

S·Abhirami

(S.ABHIRAMI)

MIT Solutions

<u>TO WHOM SO EVER IT MAY CONCERN</u>

This is to certify **Miss .S. Abhirami[Reg No : 2019BC01],Fatima College,** pursuing final year Completed for her Project Title **"GYM FEES SCHEDULING"** in the platform of PHP as front h MY SQL as back end at Mit Solutions Madurai From March 2022.
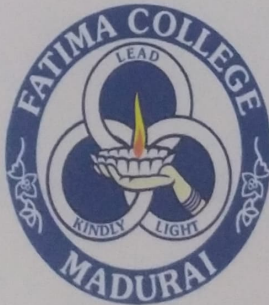
MIT SOLUTIONS

Project Manager

SERVER BASED EMAIL SYSTEM FOR ORGANISATION USING INTRANET

PROJECT REPORT

A Project work submitted to Madurai Kamaraj University in partial
fulfilment of the requirements for the award of degree of

B.C.A (BACHELOR OF COMPUTER APPLICATIONS)

2021-2022

Submitted by

ARUNADEVI K (2019BC02)

Under the Guidance of

Dr. G. PREETHA, M. Sc(IT), M. Phil., Ph.D.

DEPARTMENT OF COMPUTER APPLICATIONS

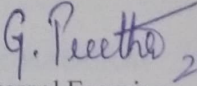## FATIMA COLLEGE (AUTONOMOUS)
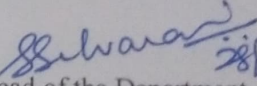
MADURAI-18
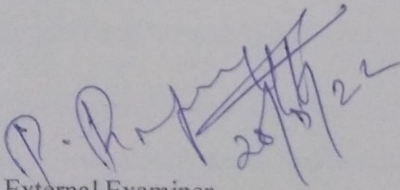
BONAFIDE CERTIFICATE

This is to certify that the project entitled **SERVER BASED EMAIL SYSTEM FOR ORGANISATION USING INTRANET** is a bonafide record work done by **ARUNADEVI K (2019BC02)** in partial fulfilment of the requirement for the award of the Degree of B.C.A. (Bachelor of Computer Applications), Fatima College during the academic year 2019-2022.

G. Preetha 28/05/22

Internal Examiner

Head of the Department

Submitted for the Viva-Voice Examination held on   _28·05·2022_

External Examiner
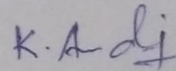
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I declare that this project documentation or any part thereof has not been submitted for getting any degree or diploma from any university or college.

Place: MADURAI

Date: 28·05·2022

Signature

K·A·dj

(ARUNADEVI K)

ACKNOWLEDGMENT

I thank GOD for his substantial blessings and mercy at all stages of the completion of this project.

I thank my parents for their blessings and also my friends for their sacrifices in supporting us.

I feel honoured to place warm salutation to the management of **FATIMA COLLEGE, MADURAI** who gave us the opportunity to have the strong base in computer and technical knowledge.

I express my sincere thanks to **Dr. Sr. G. CELINE SAHAYA MARY, Principal, Fatima College, Madurai** for giving us a comfortable environment to complete this project.

I express my sincere thanks to **Dr. Sr. G. JENITA RANI and Dr. S. L. KUMARI, Vice Principals, Fatima College, Madurai** for their extensive support rendered to carry out this project successfully.

I express my sincere thanks to **Mrs. S. SELVARANI, Head, Department of Computer Applications,** for her valuable guidance and encouragement.

I express my sincere thanks to **Dr. G. PREETHA, Assistant Professor, Department of Computer Applications,** for her valuable guidance and encouragement.

I like to thank all the staff members of Department Of Computer Applications, Fatima College, for their valuable suggestions at different stages of this project work.

I am grateful to explore my thanks to the people whose constant inspiration, guidance and blessings made this project a successful one.

TO WHOM SO EVER IT MAY CONCERN

This is to certify **Miss. K. Arunadevi [Reg No: 2019BC02], Fatima College,** pursuing final year **BCA** is Completed for her Project Title **"SERVER BASED EMAIL SYSTEM FOR ORGANIZATION USING INTRANET** "in the platform of ASP.Net as front end with MS SQL as back end at Futurik Technologies Madurai From March To May 2022.

FUTURIK TECHNOLOGIES

Project Manager

+91 96559 79888   www.futuriktechnologies.com

Plot 60, Railar Nagar, Ist Street, Thamarai Veethi, Shanthi Nagar, Madurai - 625018.

FATIMA COLLEGE FORUM

PROJECT REPORT

A Project work submitted Madurai Kamaraj University in partial

fulfilment of the requirements for the award of degree of
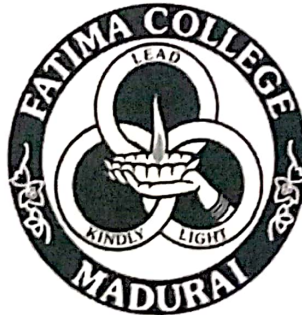
BACHELOR OF COMPUTER APPLICATIONS

2021-2022

Submitted by

V.ASHA MERLIN (Reg.No.2019BC03)

Under the Guidance of

MRS. R. RAMYA, M.C.A.SIET

DEPARTMENT OF COMPUTER APPLICATIONS
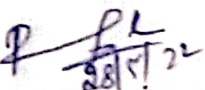
FATIMA COLLEGE (AUTONOMOUS)

MADURAI-18

DEPARTMENT OF COMPUTER APPLICATIONS
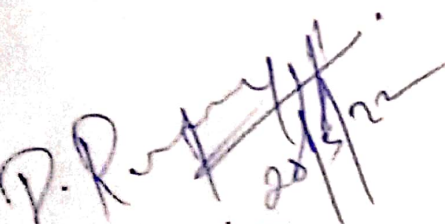
BONAFIDE CERTIFICATE

This is to certify that the project entitled **"FATIMA COLLEGE FORUM "is a** bonfide record work done by **V. ASHA MERLIN (2019BC03)** in partial fulfilment of the requirement for the award of the Degree of Bachelor of Computer Applications, Fatima College during the academic year 2019-2022.

Internal Examiner

Head of the Department

Submitted for the Viva-Voice Examination held on ___28 . 05 . 2022___

External Examiner

DECLARATION

I hereby declare that the project work entitled **"FATIMA COLLEGE FORUM "**is a project report of the original work done by my selves. This project work is submitted to Fatima College (Affiliated to Madurai Kamaraj University) in partial fulfilment of the Degree of Bachelor of Computer Applications during the academic year 2019 -2022.

I declare that this project documentation or any part thereof has not been submitted forgetting any degree or diploma from any university or college.

Place: MADURAI

Date: 28.05.2022

Signature

V. Asha Merlen

(V. ASHA MERLIN)

ACKNOWLEDGMENT

I thank GOD for his substantial blessings and mercy at all stages of the completion of this project.

I thank my parents for their blessings and also my friends for their sacrifices in supporting me.

I feel honored to place warm salutation to the management of **FATIMA COLLEGE, MADURAI** who gave me the opportunity to have the strong base in computer and technical knowledge.

I express my sincere thanks to **Rev. Dr. Sr. G. CELINE SAHAYA MARY, Principal, Fatima College, Madurai** for giving us a comfortable environment to completethis project.

I express my sincere thanks to **Dr. Sr. G. JENITA RANI (SHIFT-2) and Dr. S. L. KUMARI, (SHIFT-2), VicePrincipals, Fatima College, Madurai** for their extensive support rendered to carry out this project successfully.

I express my sincere thanks to **Mrs. S. SELVARANI, Head, Department ofComputer Applications,** for her valuable guidance and encouragement.

I express my sincere thanks to **Mrs. RAMYA, Department of Computer Applications,** for her valuable guidance and encouragement.

I like to thank all the staff members of Department Computer, Fatima College, for their valuable suggestions at different stages of this project work.

I am grateful to explore my thanks to the people whose constant inspiration, guidanceand blessings made this project successful one.

Neptunix technology

TO WHOM SO EVER IT MAY CONCERN

This is to certify **Miss .V. Asha Merlin [Reg No : 2019BC03],Fatima College,** pursuing final year **BCA** is Completed for her Project Title **"Fatima college forum "** in the platform of ASP.Net as front end with MS SQL as back end at Neptunix Techechnology Madurai From March To May 2022.

NEPTUNIX TECHNOLOGY

R. Kalthoeswan

Project Manager

8870444723

19 th Meenakshi illam Krishnapuram colony madurai 14

IOT BASED HELMET MINING

PROJECT REPORT

A Project work submitted Kamaraj university in partial
Fulfillment of the requirements for the award degree of

(BACHELOR OF COMPUTER APPLICATIONS)

2021-2022

Submitted By

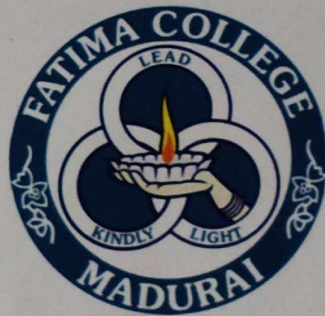P. DEEPIKA(Reg.no.2019BC04)

M.SANDHIYA(Reg.no.2019BC26)

V.VISHALATCHI(Reg.no.2019BC40)

Under the Guidance of

Mrs. S. SELVARANI, MCA., M.Phil., NET., SET.,

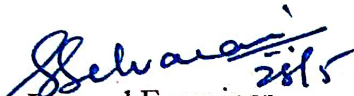## DEPARTMENT OF COMPUTER APPLICATIONS

FATIMA COLLEGE(AUTONOMOUS)

MADURAI-18

BONAFIDE CERTIFICATE

This is certified that the project entitled "IOT BASED HELMET MINING' 'is a bonafide record work done by **P. DEEPIKA (Reg.No.2019BC04), M. SANDHIYA (Reg.No.2019BC26), V. VISHALATCHI (Reg.No.2019BC40)** in partial fulfillment of the requirement for the award of the Degree of B.C.A, (Bachelor of Computer Application), Fatima college during the academic year 2019-2022.

Internal Examiner

Head of the Department

Submitted for the Viva-Voice Examination held on 28 . 05. 2022

External Examiner

DECLARATION

We here by declare that the project work entitled "HELMET MINING" is a project report of the original work done by ourselves. This project work is submitted to Fatima College (Afflicted to Madurai Kamaraj University) in partial fulfillment of the Degree of Bachelor of Computer Application during the academic year 2019-2022.

We declare that this project documentation or any part thereof has not been submitted for getting any degree or diploma from any university or college

Place: MADURAI

Date: 28 - 05 - 2022

Signature

P. Deepika
1. (P. DEEPIKA)

M. Sandhiya
2. (M. SANDHIYA)

V. Vishalatchi
3. (V. VISHALATCHI)

TOPPERS IT SOLUTION

TO WHOM SO EVER IT MAY CONCERN

This is to certify **Miss .P. DEEPIKA [Reg. No: 2019BC04], Fatima College,** pursuing final year BCA is completed for her Project Title **"HELMET MINING"** in the platform of IOT as front end with embedded c/cpp as back end at Toppers IT Solutions Madurai From March To May 2022.

TOPPERS IT SOLUTION

Project Manager

TOPPERS IT SOLUTION
MADURAI.

COMPILER FORUM FOR INTERVIEW PROCESS

PROJECT REPORT

A Project work submitted to Madurai Kamaraj University in partial

fulfilment of the requirements for the award of degree of

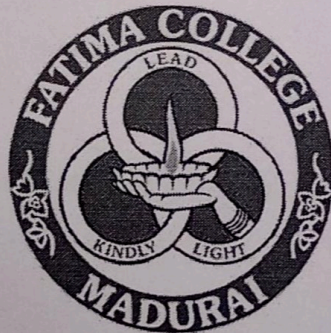## B.C.A (BACHELOR OF COMPUTER APPLICATIONS)

2021-2022

Submitted by

M.DHARSHINI (Reg.No.2019BC05)

Under the Guidance of

Dr.G.PREETHA , M.Sc(IT) ., M.Phil ., Ph.D

DEPARTMENT OF COMPUTER APPLICATIONS

FATIMA COLLEGE (AUTONOMOUS)
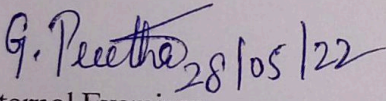
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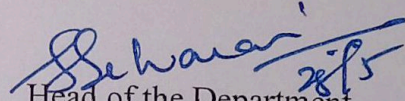
DEPARTMENT OF COMPUTER APPLICATIONS
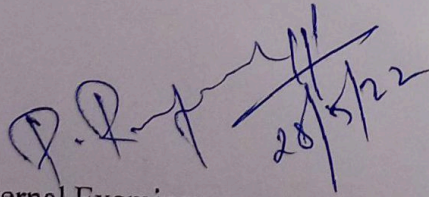
BONAFIDE CERTIFICATE

This is to certify that the project entitled **"COMPILER FORUM FOR INTERVIEW PROCESS"** is a bonafide record work done by **M. DHARSHINI (2019BC05)** in partial fulfilment of the requirement for the award of the Degree of B.C.A. (Bachelor of Computer Applications), Fatima College during the academic year 2019-2022.

G. Preetha 28/05/22

Internal Examiner

Sehwara 28/5

Head of the Department

Submitted for the Viva-Voice Examination held on __28.05.2022__

P.R. 28/5/22

External Examiner

DECLARATION
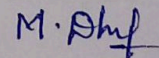
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I declare that this project documentation or any part thereof has not been submitted for getting any degree or diploma from any university or college.

Place: MADURAI

Date: 28·05·2022

Signature

M·Dhf

(M.DHARSHINI)

TO WHOMSO EVERITMAYCONCERN

to certify **Miss .M.Dharshini [Reg No :2019BC05],Fatima College,** pursuing final year **BCA** is Completed for

ject Title **"COMPILER FORUM FOR INTERVIEW PROCESS"** in the platform of ASP.Net as front end

S SQL as back end at FuturikTechechnologies Madurai From March To May 2022.

WithBest Wishes

ProjectManager

ForFUTURIKTECHNOLOGIES

ADVANCE IMAGE PATTERN

PROJECT REPORT

A Project work submitted to Madurai Kamaraj University in partial

fulfilment of the requirements for the award of degree of

B.C.A (BACHELOR OF COMPUTER APPLICATIONS)

2021-2022

Submitted by

S. DINUSHA (REG.NO.2019BC06)

Under the Guidance of

Mrs. R. RAMYA, MCA., SLET.,

DEPARTMENT OF COMPUTER APPLICATION

FATIMA COLLEGE (AUTONOMOUS)

MADURAI-18

BONAFIDE CERTIFICATE

This is to certify that the project entitled **ADVANCE IMAGE PATTERN** is a bonafide record work done by **DINUSHA S (2019BC06)** in partial fulfilment of the requirement for the award of the Degree of B.C.A. (Bachelor of Computer Applications), Fatima College during the academic year 2019-2022.

Internal Examiner   Head of the Department

Submitted for the Viva-Voce Examination held on 28-05-2022

Submitted for the Viva-Voice Examination held on _____

External Examiner

DECLARATION

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Place: MADURAI

Date: Signature

                                                                                                (S. DINUSHA)

TO WHOM SO EVER IT MAY CONCERN .

This is to certify **Miss.S.Dinusha [Reg No : 2019BC06],Fatima College,** pursuing final year **BCA** is Completed for her Project Title **"ADVANCE IMAGE PATTERN "** in the platform of ASP.Net as front end with MS SQL as back end at Futurik Techechnologies Madurai From March To May 2022.

Futurik Technologies

Project Manager

+91 96559 79888   www.futuriktechnologies.com

Plot 60, Railar Nagar, Ist Street, Thamarai Veethi, Shanthi Nagar, Madurai – 625018.

ADVANCE IMAGE PATTERN

PROJECT REPORT

A Project work submitted to Madurai Kamaraj University in partial

fulfilment of the requirements for the award of degree of

B.C.A (BACHELOR OF COMPUTER APPLICATIONS)

2021-2022

Submitted by

S. DINUSHA (REG.NO.2019BC06)

Under the Guidance of

Mrs. R. RAMYA, MCA., SLET.,

DEPARTMENT OF COMPUTER APPLICATION

FATIMA COLLEGE (AUTONOMOUS)

MADURAI-18

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Internal Examiner

Head of the Department

Submitted for the Viva-Voce Examination held on 28-05-2022

External Examiner

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Place: MADURAI

Date: Signature

                                                                                                    (S. DINUSHA)

ACKNOWLEDGMENT

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I thank my parents for their blessings and also my friends for their sacrifices in supporting us.

I feel hounered to place warm salutation to the management of **FATIMA COLLEGE, MADURAI** who gave us the opportunity to have the strong base in computer and technical knowledge.

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I express my sincere thanks to **Mrs. R. RAMYA** for her valuable guidance and encouragement.

I like to thank all the staff members of Department, Fatima College, for their valuable suggestions at different stages of this project work.

I am grateful to explore my thanks to the people whose constant inspiration,and blessings made this project a successful one.

TITLE

INTRODUCTION

INTRODUCTION:

1.1 ABSTRACT

With many potential practical applications, content-based image retrieval (CBIR) has attracted substantial attention during the past few years.. So we decide to implement our project using advance image pattern searching algorithm. In existing system, images are searched based on the image name (i.e.based on the text search). .In proposed system images are searched based on the image patterns such as pixels, resolution, height and width of the image. In this product software, semi supervising algorithm is used for image searching.

It consists of only one module: user module. In this software product, user have to upload the image folder path, that folder path contains too many images. After that list of images in that folder are listed out. If user wants to search image among multiple images from the record means the input image pixels, height, resolution, width is compared with the pixels, resolution, height and width of the multiple images in the record. If there is any match found between the input images and multiple images in the record, now the multiple images from the record are listed out based on the matching between the input one and inbuilt records.

Once if the user found the image from the record then they have to add hidden text character, gray scale and color change property with the selected image.so now the output image is the blur one and it will send to user's email id.

If the user wants to download the original image it is only possible by the security key which is generated automatically at the time of upload.

This product software is very useful for the investigation department and government organizations such as while taking Aadhar cards.

1.2. MODULES DESCRIPTION

IMAGE LOADING MODULE:

Image loading module is used for uploading many number of images into database (i.e. server. .By using this module user can add the multiple images into record. These uploaded multiple images are compared with the image which is given in the image search module.

IMAGE SEARCH MODULE:

By using this module in advance image pattern searching algorithm project, user can search the image by image itself. In existing systems images are searched by text or by image name. In this module images are searched and listed out, based on the semi supervising algorithm.

ALGORITHM MODULE:

Algorithm which is used in this project is semi supervising algorithm. In semi supervising algorithm, the given image in user module is compared with multiple images in the record. Image comparsion is based on the pixels, resolution, height and width between the images. Based on these properties, matched images are listed out.

IMAGE BLEND MODULE:

Image blend module is used for adding text hiding property with the image. If the user found the image while searching, some hidden text is added with that image. Gray scale and image color changing property also added with the selected one and then send to the user's mail id .

KEY GENERATION MODULE:

In this module security key is generated with the original image. Only text merged image (i.e. image blend) is send to the user's email id.If the user wants to download (see) the original image, it is possible only by using the security key, which is generated automatically.

REPORT MODULE:

Report module is used for manipulate the whole record of this project. By using module, we can maintain the record for multiple uploaded images and searched image details and hidden text, gray scale property and image coloring properties too

SYSTEM ANALYSIS

SYSTEM ANALYSIS:

2.1 EXISTING SYSTEM

In the existing system, images are searched by the text or by the image which is given in the input field. Based on the image or image name which is given in the input field, images are list out. In the existing system, images are searched based on the text search. Images are list out based on the name of the image. The following criteria are the drawback of the existing system.

- Low efficient
- Less accuracy
- Consuming time
- Slow process

2.2. PROPOSED SYSTEM

The following proposed system, is used to eradicate the drawbacks of the existing system. The main objective of the proposed system is to provide the result with high efficiency. In this proposed system image are searched by the resolution, pixels, height and width of the image. In the proposed system, image searching is based on the semi supervising algorithm. Text hiding, gray scale and image color change property is added to the selected image.

Advantages

- High accuracy output
- Fast process

SYSTEM

REQUIREMENTS

SYSTEM REQUIREMENTS:

3.1. HARDWARE REQUIREMENTS

- The hardware used for the development of the project is:
- PROCESSOR   :   Pentium III 700 MHz
- RAM   :   2 GB RAM
- MONITOR   :   15" COLOR
- HARD DISK   :   200 GB
- FLOPPY DRIVE   :   1.44 MB
- CD DRIVE   :   LG 52X
- KEYBOARD   :   keys enhanced
- MOUSE   :   logite

3.2. SOFTWARE REQUIREMENTS

- The software used for the development of the project is:
- ENVIRONMENT   :   Visual Studio .NET 2008
- .NET FRAMEWORK   :   Version 3.5
- LANGUAGE   :   ASP.NET WITH C#
- BACK END   :   MS-SQL SERVER 2005

3.3 SYSTEM ARCHITECTURE:

In this section you will get an overview of the .NET Framework architecture, the Web application model, and the configuration system.

ASP.NET Core Concepts

- Web development platform
- New programming model
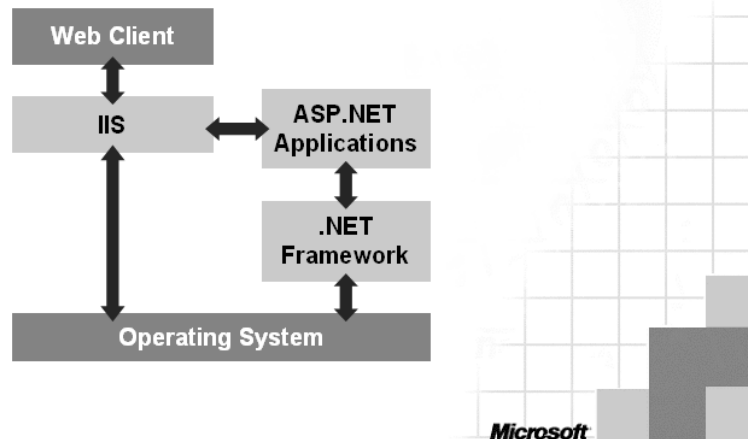
> **The .NET Framework Architecture**

To really understand what makes ASP.NET more than just "ASP 4.0" we need to have a look at the underlying .NET Framework architecture.

The .NET Framework architecture is built on top of the operating system services. This framework contains different layers.

In the .NET Framework common language runtime, this resides on top of the operating system services. The common language runtime loads and executes code that targets the runtime. This code is therefore called *managed code*. The runtime gives you, for example, the ability for cross-language integration. For that matter it makes use of the common type system, which defines a standard set of types and rules to create new types.

As mentioned earlier, the .NET Framework provides a rich set of class libraries. These include base classes, like networking and input/output classes, a data class library for data access, and classes for use by programming tools, such as debugging services. All of them are brought together by the Services Framework, which sits on top of the common language runtime.

The top layer of the .NET framework consists of the Windows application model and, in parallel, the Web application model.

Use the Windows application model—Windows Forms—to develop more traditional Windows applications and take advantage of new Windows 2000 features. You can include existing COM components, but also make use of Web Services (which are explained later).

The Web application model—in the slide presented as ASP.NET—includes Web Forms and Web Services.

ASP.NET comes with built-in Web Forms controls, which are responsible for generating the user interface. They mirror typical HTML widgets like text boxes or buttons. If these controls do not fit your needs, you are free to create your own user controls.

Web Services brings you a model to bind different applications over the Internet. This model is based on existing infrastructure and applications and is therefore standard-based, simple, and adaptable.

A Web Service can be understood as a *contract* between server and client. Those contracts are described by the XML-based Web Services Description Language (WSDL). Doing so, Web Services are defined as endpoints that communicate via XML-based messages.

WEB APPLICATION MODEL:

But now we will show you in more detail how ASP.NET requests are handled.

As with earlier versions of ASP, a client can access your Web application using URLs. So, a Web application is a set of URLs related to one or more virtual directories on the Web server.

Each request is processed by the HTTP runtime, which is the core of the ASP.NET Web application model. Processing consists of resolving the URL of the request to the corresponding application, and dispatching the request to the application for further processing.

Requests are led through a pipeline of HTTP *modules*. With each module a developer can catch and modify requests. One of those modules could be, for example, a security module.

At the end of the module pipeline, there are *request handlers*. They enable the processing of individual URLs within an application.

From the developer's point of view there is easy access to a clean and well-structured object model. Beside those aspects mentioned above, there is an object encapsulating all information

about an individual HTTP request within ASP.NET. This object is called **HttpContext**. HTTP modules and request handlers access ASP.NET intrinsic via **HttpContext**.

> ➤ **HTTP Runtime**

Now in more detail:

MANAGED CODE:

While the HTTP runtime is managed code—because it targets the common language runtime—it runs within an unmanaged host process that could be, for example, Microsoft IIS.

So, for ASP.NET the .NET Framework uses IIS as a more or less "dump" gateway for its own HTTP infrastructure.
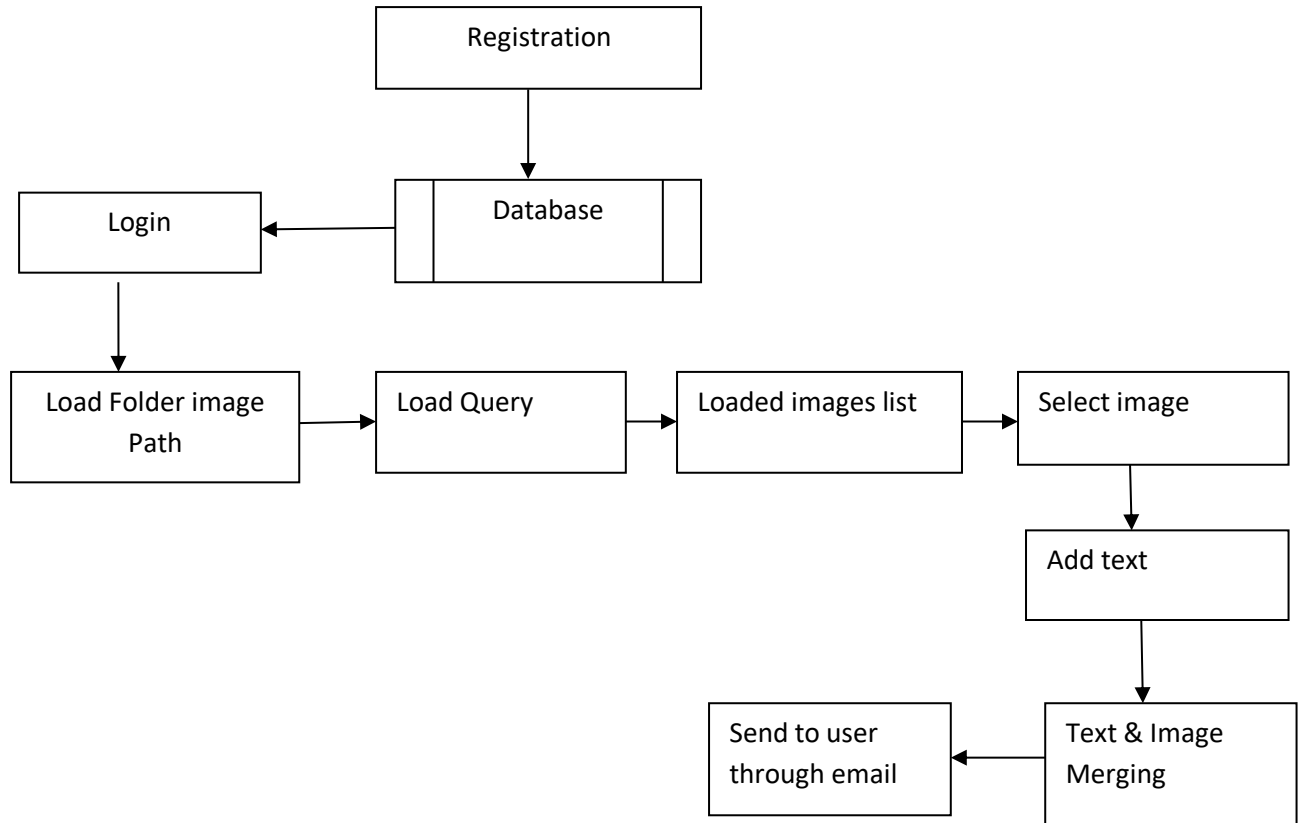
Aims for 100% availability

The HTTP runtime processes all requests asynchronously. Because of this and because it's multithreaded, the HTTP runtime is fail-safe to a high level. For example, badly written code cannot block the HTTP runtime.

REPLACES ISAPI:

The HTTP runtime replaces the Internet Server Application Programming Interface (ISAPI).

Advance image pattern searching algorithm

DFD Diagram

```
                          ┌─────────────────┐
                          │  Registration   │
                          └────────┬────────┘
                                   │
                                   ▼
┌──────────────┐         ┌─────────────────────┐
│    Login     │◄────────┤      Database       │
└──────┬───────┘         └─────────────────────┘
       │
       ▼
┌──────────────┐   ┌──────────────┐   ┌──────────────────┐   ┌──────────────┐
│ Load Folder  │──►│  Load Query  │──►│ Loaded images    │──►│ Select image │
│ image Path   │   │              │   │ list             │   │              │
└──────────────┘   └──────────────┘   └──────────────────┘   └──────┬───────┘
                                                                     │
                                                                     ▼
                                                            ┌──────────────┐
                                                            │   Add text   │
                                                            └──────┬───────┘
                                                                   │
                                                                   ▼
                          ┌──────────────────┐         ┌──────────────────┐
                          │ Send to user     │◄────────┤ Text & Image     │
                          │ through email    │         │ Merging          │
                          └──────────────────┘         └──────────────────┘
```

SOFTWARE ENVIRONMENT

SOFTERWARE ENVIRONMENT:

4.1 FEATURES OF NETWORK:

Microsoft .NET is a set of Microsoft software technologies for rapidly building and integrating XML Web services, Microsoft Windows-based applications, and Web solutions. The .NET Framework is a language-neutral platform for writing programs that can easily and securely interoperate. There's no language barrier with .NET: there are numerous languages available to the developer including Managed C++, C#, Visual Basic and Java Script. The .NET framework provides the foundation for components to interact seamlessly, whether locally or remotely on different platforms. It standardizes common data types and communications protocols so that components created in different languages can easily interoperate.

".NET" is also the collective name given to various software components built upon the .NET platform. These will be both products (Visual Studio.NET and Windows.NET Server, for instance) and services (like Passport, .NET My Services, and so on).

THE .NET FRAMEWORK:

The .NET Framework has two main parts:

1. The Common Language Runtime (CLR).

2. A hierarchical set of class libraries.

The CLR is described as the "execution engine" of .NET. It provides the environment within which programs run. The most important features are

♦ Conversion from a low-level assembler-style language, called Intermediate Language (IL), into code native to the platform being executed on.
♦ Memory management, notably including garbage collection.
♦ Checking and enforcing security restrictions on the running code.
♦ Loading and executing programs, with version control and other such features.
♦ The following features of the .NET framework are also worth description:

MANAGED CODE

The code that targets .NET, and which contains certain extra Information - "metadata" - to describe itself. Whilst both managed and unmanaged code can run in the runtime, only managed code contains the information that allows the CLR to guarantee, for instance, safe execution and interoperability.

MANAGED DATA:

With Managed Code comes Managed Data. CLR provides memory allocation and Deal location facilities, and garbage collection. Some .NET languages use Managed Data by default, such as C#, Visual Basic.NET and JScript.NET, whereas others, namely C++, do not. Targeting CLR can, depending on the language you're using, impose certain constraints on the features available. As with managed and unmanaged code, one can have both managed and unmanaged data in .NET applications - data that doesn't get garbage collected but instead is looked after by unmanaged code.

COMMON TYPE SYSTEM:

The CLR uses something called the Common Type System (CTS) to strictly enforce type-safety. This ensures that all classes are compatible with each other, by describing types in a common way. CTS define how types work within the runtime, which enables types in one language to interoperate with types in another language, including cross-language exception handling. As well as ensuring that types are only used in appropriate ways, the runtime also ensures that code doesn't attempt to access memory that hasn't been allocated to it.

COMMON LANGUAGE SPECIFICATION:

The CLR provides built-in support for language interoperability. To ensure that you can develop managed code that can be fully used by developers using any programming language, a set of language features and rules for using them called the Common Language Specification (CLS) has been defined. Components that follow these rules and expose only CLS features are considered CLS-compliant.

THE CLASS LIBRARY:

.NET provides a single-rooted hierarchy of classes, containing over 7000 types. The root of the namespace is called System; this contains basic types like Byte, Double, Boolean, and String, as well as Object. All objects derive from System. Object. As well as objects, there are value types. Value types can be allocated on the stack, which can provide useful flexibility. There are also efficient means of converting value types to object types if and when necessary.

The set of classes is pretty comprehensive, providing collections, file, screen, and network I/O, threading, and so on, as well as XML and database connectivity.

The class library is subdivided into a number of sets (or namespaces), each providing distinct areas of functionality, with dependencies between the namespaces kept to a minimum.

LANGUAGES SUPPORTED BY .NET

The multi-language capability of the .NET Framework and Visual Studio .NET enables developers to use their existing programming skills to build all types of applications and XML Web services. The .NET framework supports new versions of Microsoft's old favorites Visual Basic and C++ (as VB.NET and Managed C++), but there are also a number of new additions to the family.

Visual Basic .NET has been updated to include many new and improved language features that make it a powerful object-oriented programming language. These features include inheritance, interfaces, and overloading, among others. Visual Basic also now supports structured exception handling, custom attributes and also supports multi-threading.

Visual Basic .NET is also CLS compliant, which means that any CLS-compliant language can use the classes, objects, and components you create in Visual Basic .NET.

Managed Extensions for C++ and attributed programming are just some of the enhancements made to the C++ language. Managed Extensions simplify the task of migrating existing C++ applications to the new .NET Framework.

C# is Microsoft's new language. It's a C-style language that is essentially "C++ for Rapid Application Development". Unlike other languages, its specification is just the grammar of the language. It has no standard library of its own, and instead has been designed with the intention of using the .NET libraries as its own.

Microsoft Visual J# .NET provides the easiest transition for Java-language developers into the world of XML Web Services and dramatically improves the interoperability of Java-language programs with existing software written in a variety of other programming languages.

Active State has created Visual Perl and Visual Python, which enable .NET-aware applications to be built in either Perl or Python. Both products can be integrated into the Visual Studio .NET environment. Visual Perl includes support for Active State's Perl Dev Kit.

Other languages for which .NET compilers are available include

- FORTRAN
- COBOL
- Eiffel

FIG1 .NET FRAMEWORK

ASP.NET XML WEB SERVICES	Windows Forms
Base Class Libraries	
Common Language Runtime	
Operating System	

C#.NET is also compliant with CLS (Common Language Specification) and supports structured exception handling. CLS is set of rules and constructs that are supported by the CLR (Common Language Runtime). CLR is the runtime environment provided by the .NET Framework; it manages the execution of the code and also makes the development process easier by providing services.

C#.NET is a CLS-compliant language. Any objects, classes, or components that created in C#.NET can be used in any other CLS-compliant language. In addition, we can use objects, classes, and components created in other CLS-compliant languages in C#.NET. The use of CLS ensures complete interoperability among applications, regardless of the languages used to create the application.

CONSTRUCTORS AND DESTRUCTORS:

Constructors are used to initialize objects, whereas destructors are used to destroy them. In other words, destructors are used to release the resources allocated to the object. In C#.NET the sub finalize procedure is available. The sub finalize procedure is

used to complete the tasks that must be performed when an object is destroyed. The sub finalize procedure is called automatically when an object is destroyed. In addition, the sub finalize procedure can be called only from the class it belongs to or from derived classes.

GARBAGE COLLECTION:

Garbage Collection is another new feature in C#.NET. The .NET Framework monitors allocated resources, such as objects and variables. In addition, the .NET Framework automatically releases memory for reuse by destroying objects that are no longer in use.

In C#.NET, the garbage collector checks for the objects that are not currently in use by applications. When the garbage collector comes across an object that is marked for garbage collection, it releases the memory occupied by the object.

OVERLOADING:

Overloading is another feature in C#. Overloading enables us to define multiple procedures with the same name, where each procedure has a different set of arguments. Besides using overloading for procedures, we can use it for constructors and properties in a class.

MULTITHREADING:

C#.NET also supports multithreading. An application that supports multithreading can handle multiple tasks simultaneously, we can use multithreading to decrease the time taken by an application to respond to user interaction.

STRUCTURED EXCEPTION HANDLING

C#.NET supports structured handling, which enables us to detect and remove errors at runtime. In C#.NET, we need to use Try…Catch…Finally statements to create exception handlers. Using Try…Catch…Finally statements, we can create robust and effective exception handlers to improve the performance of our application.

THE .NET FRAMEWORK

The .NET Framework is a new computing platform that simplifies application development in the highly distributed environment of the Internet.

OBJECTIVES OF. NET FRAMEWORK

1. To provide a consistent object-oriented programming environment whether object codes is stored and executed locally on Internet-distributed, or executed remotely.

2. To provide a code-execution environment to minimizes software deployment and guarantees safe execution of code.

3. Eliminates the performance problems.

There are different types of application, such as Windows-based applications and Web-based applications.

4.2 FEATURES OF SQL-SERVER:

The OLAP Services feature available in SQL Server version 7.0 is now called SQL Server 2000 Analysis Services. The term OLAP Services has been replaced with the term Analysis Services. Analysis Services also includes a new data mining component. The Repository component available in SQL Server version 7.0 is now called Microsoft SQL Server 2000 Meta Data Services. References to the component now use the term Meta Data Services. The term repository is used only in reference to the repository engine within Meta Data Services

SQL-SERVER database consists of six type of objects,

They are,

1. TABLE

2. QUERY

3. FORM

4. REPORT

5. MACRO

TABLE:

A database is a collection of data about a specific topic.

VIEWS OF TABLE:

We can work with a table in two types,

      1. Design View

      2. Datasheet View

Design View

To build or modify the structure of a table we work in the table design view. We can specify what kind of data will be hold.

Datasheet View:

To add, edit or analyses the data itself we work in tables datasheet view mode.

QUERY:

A query is a question that has to be asked the data. Access gathers data that answers the question from one or more table. The data that make up the answer is either dynaset (if you edit it) or a snapshot (it cannot be edited).Each time we run query, we get latest information in the dynaset. Access either displays the dynaset or snapshot for us to view or perform an action on it, such as deleting or updating.

INPUT DESIGN

Input design is the process of converting user-oriented input into computer-based format. The goal of designing input data is to make data entry as easy as possible and free from errors. Errors in the input are handled in the input design. The input data is the lifeblood of a system and have to be analyzed and designed with utmost case and consideration. The decisions made during the input design are:

- To provide cost effective method of input
- To achieve the highest possible level of accuracy
- To ensure that input is understand by the user

In this project various resources like textboxes, dropdown list, link buttons etc are used for accepting user input The main type of inputs to this project are files which can be a text file or image file. The other inputs to this project include file names, destination user name, integer values for splitting files into packets. The file name is nothing but the file that is to be splitted into packets and transferred to the specified destination. Destination user name is the user who is going to reassemble the splitted packets.

Taking into account, all the above needs of the input designing, the new process designing could have the following features. In all cases processing should be automatic and manual work should be kept minimum. Similarly, the user input should also be kept minimum or least extend possible. By giving the above input calculations should be automatic. The auto calculation is the motto of this new process, while providing the auto calculation the results with minimum time operation, should be accurate and free from errors.

OUTPUT DESIGN

Output design generally refers to the results and information's that are generated by the system for many end-users; output is the main reason for developing the system and the basis on which they evaluate the usefulness of the application. The basic requirements of output are that it should be accurate, timely and appropriate, in terms of content, medium and layout for its intended purpose.

The important task of any system lies in the capability of producing high quality output and reports. Computer output is the most important and direct source of information to the user. A good output design contains all required information and well formatted for the better visualization and avoid the complexity in displaying the data this system was developed by keeping in mind and proper output is displayed for the users accurately.

In this project the output is the reassembled file that was received by the user at the destination and the messages found in the client's inbox and the report that was generated which shows the number of packets transferred along with acknowledgement. These outputs are obtained in a new page on the browser.

SYSTEM TESTING

SYSTEM TESTING:

Software testing is an important element of software quality assurance and represents the ultimate review of specification, design and coding. It increasing visibility of software as a system element and the costs associates with a software failure are motivating forces for all well   planned through testing .The system is tested with giving wrong information. Cascade deletion and, the software developer checks updating. Testing and debugging are different activities, but debugging must be accommodated in any testing strategy.

5.1 UNIT TESTING:

The first step in testing is Unit testing. Individual testing are tested to ensure that they operate correctly. Each component is tested independently, without other system components. The module interface is tested to ensure that information properly flow into and out of the program. These are tested that the module operates at boundary established to limit or restrict processing. Unit testing is normally considered as an adjunct to the coding step. After the coding has been developed, received and verified for correct syntax, unit testing begins. Here each module is tested to provide its correctness, validity and determine any missing operations and to verify whether the objectives have been met, errors are noted down and corrected immediately.

Unit testing is the important and major part of the project. So errors can be rectified easily in each module and program clarity can be increased. In this project, the entire system is divided into several modules and is developed individually. Hence, unit testing is conducted to individual modules.

Unit testing is usually conducted as part of a combined code and unit test phase of the software

lifecycle, although it is not uncommon for coding and unit testing to be conducted as two distinct phases.

5.2 INTEGRATION TESTING:

The second step in the testing process is the Integration testing. Integration testing is the systematic technique for constructing the program structure while conducting tests to uncover errors associated with integrating. After the unit test, each module is gradually integrated to form one final system.

All the modules when unit tested will work properly but after integrating the data can cause error one module can have an inadvertent, adverse effect on another; sub functions when combined may not produce the desired major function; global data structures can cause problems, etc.

Hence, the objective of integration testing is to take unit tested modules and build a final program structure. In this project, modules are combined to find the overall performance of the system.

Software integration testing is the incremental integration testing of two or more integrated software

components on a single platform to produce failures caused by interface defects.

The task of the integration test is to check that components or software applications, e.g. components in a software system or – one step up – software applications at the company level –interact without error

VERIFICATION & VALIDATION

CLIENT SIDE VALIDATION:

Various client side validations are used to ensure on the client side that only valid data is entered. Client side validation saves server time and load to handle invalid data. Some checks imposed are:

- VBScript in used to ensure those required fields are filled with suitable data only. Maximum lengths of the fields of the forms are appropriately defined.
- Forms cannot be submitted without filling up the mandatory data so that manual mistakes of submitting empty fields that are mandatory can be sorted out at the client side to save the server time and load.

- Tab-indexes are set according to the need and taking into account the ease of user while working with the system.

SERVERSIDE VALIDATION:

Some checks cannot be applied at client side. Serverside checks are necessary to save the system from failing and intimating the user that some invalid operation has been performed or the performed operation is restricted. Some of the Serverside checks imposed is:

- Serverside constraint has been imposed to check for the validity of primary key and foreign key. A primary key value cannot be duplicated. Any attempt to duplicate the primary value results into a message intimating the user about those values through the forms using foreign key can be updated only of the existing foreign key values.

- User is intimating through appropriate messages about the successful operations or exceptions occurring at server side.

- Various Access Control Mechanisms have been built so that one user may not agitate upon another. Access permissions to various types of users are controlled according to the organizational structure. Only permitted users can log on to the system and can have access according to their category. User- name, passwords and permissions are controlled o the server side.

- Using server side validation, constraints on several restricted operations are imposed.

SAMPLE CODING

SAMPLE CODING:

```
using System;

using System.Collections.Generic;

using System.ComponentModel;

using System.Data;

using System.Drawing;

using System.Linq;

using System.Text;

using System.Windows.Forms;

using System.Data.SqlClient;

using System.Net;

using System.Net.Mail;

using System.IO;

namespace ImagePatternSearching

{

    public partial class AdminHome : Form

    {

        public AdminHome()

        {

            InitializeComponent();

        }

        private void activateLoginToolStripMenuItem_Click(object sender, EventArgs e)

        {

            AdminHome frm = new AdminHome();

            frm.Show();

        }

        private void logoutToolStripMenuItem_Click(object sender, EventArgs e)

        {
```

```csharp
            Application.Exit();
        }


        public static string CreateRandomPassword(int PasswordLength)
        {
            string _allowedChars = "0123456789";
            Random randNum = new Random();
            char[] chars = new char[PasswordLength];
            int allowedCharCount = _allowedChars.Length;
            for (int i = 0; i < PasswordLength; i++)
            {
                chars[i] = _allowedChars[(int)((_allowedChars.Length) *
randNum.NextDouble())];
            }
            return new string(chars);
        }


        private void button1_Click(object sender, EventArgs e)
        {
            String s=CreateRandomPassword(4);
            textBox5.Text = s;
        }


        private void button2_Click(object sender, EventArgs e)
        {
            mailsend();
            Class1 getcon = new Class1();
            SqlConnection con = getcon.connect();
            SqlCommand cmd = new SqlCommand("update userregister set
status='Active',secretkey='"+textBox5.Text+"' where id='"+textBox1.Text+"'", con);
```

```csharp
        cmd.ExecuteNonQuery();

        MessageBox.Show("Activated Successfully");


    }
    public void mailsend()
    {
        MailMessage msg = new MailMessage(new
MailAddress("noreplymailing22@gmail.com"), new MailAddress(textBox4.Text));

        msg.Subject = "Login Key";

        msg.IsBodyHtml = true;

        msg.Body = "Secret Key" + textBox5.Text;

        //msg.Attachments.Add(new Attachment(dstPic));

        System.Net.NetworkCredential nwcred = new
System.Net.NetworkCredential("noreplymailing22@gmail.com", "noreply@12345");

        SmtpClient smclient = new SmtpClient();

        smclient.EnableSsl = true;

        smclient.UseDefaultCredentials = false;

        smclient.Credentials = nwcred;

        smclient.Host = "smtp.gmail.com";

        smclient.Port = 587;

        smclient.Send(msg);

        MessageBox.Show("Mail Send Successfully");
    }

    private void comboBox1_SelectedIndexChanged(object sender, EventArgs e)
    {
      display1();
    }


    private void AdminHome_Load(object sender, EventArgs e)
    {
```

```csharp
            Class1 getcon = new Class1();

            SqlConnection con = getcon.connect();

            string sql = "select distinct username from userregister where
status='Register'";

            SqlCommand cmd = new SqlCommand(sql, con);

            SqlDataReader DR = cmd.ExecuteReader();

            while (DR.Read())

            {

                comboBox1.Items.Add(DR[0]);

            }

        }

        public void display1()

        {

            Class1 getcon = new Class1();

            SqlConnection con = getcon.connect();

            string sql = "select * from userregister where username='" + comboBox1.Text +
"'";

            SqlCommand cmd = new SqlCommand(sql, con);

            SqlDataReader DR = cmd.ExecuteReader();

            while (DR.Read())

            {

                textBox1.Text = DR["id"].ToString();

                textBox2.Text = DR["address"].ToString();

                textBox3.Text = DR["phoneno"].ToString();

                textBox4.Text = DR["emailid"].ToString();

            }

        }

    }

}using System;

using System.Collections.Generic;

using System.ComponentModel;
```

```csharp
using System.Data;

using System.Drawing;

using System.Linq;

using System.Text;

using System.Windows.Forms;

using System.Data.SqlClient;

namespace ImagePatternSearching

{

    public partial class Form1 : Form

    {

        public Form1()

        {

            InitializeComponent();

        }

        private void button1_Click(object sender, EventArgs e)

        {

            Class1 getcon = new Class1();

            SqlConnection con = getcon.connect();

            String query = "select * from userregister where username = '" + textBox1.Text
+ "'and password = '" + textBox2.Text + "' and secretkey='" + textBox3.Text + "' and
status='Active'";

            SqlCommand cmd = new SqlCommand(query, con);

            SqlDataReader dbr;

            dbr = cmd.ExecuteReader();

            if (dbr.Read())

            {

                Home frm = new Home();

                frm.Show();

            }

            else

            {
```

```csharp
            MessageBox.Show("Invalid User!!!Try Again");
        }
    }
    private void button2_Click(object sender, EventArgs e)
    {
        this.Hide();
        Register frm = new Register();
        frm.Show();
    }


    private void adminLoginToolStripMenuItem_Click(object sender, EventArgs e)
    {
        this.Hide();
        PatternHome frm = new PatternHome();
        frm.Show();
    }


    private void userToolStripMenuItem_Click(object sender, EventArgs e)
    {
        this.Hide();
        Form1 frm = new Form1();
        frm.Show();
    }
    private void userRegisterToolStripMenuItem_Click(object sender, EventArgs e)
    {
        this.Hide();
        Register frm = new Register();
        frm.Show();
    }
}
```

```csharp
}
namespace ImagePatternSearching
{
    partial class Register
    {
        /// <summary>
        /// Required designer variable.
        /// </summary>
        private System.ComponentModel.IContainer components = null;

        /// <summary>
        /// Clean up any resources being used.
        /// </summary>
        /// <param name="disposing">true if managed resources should be disposed;
otherwise, false.</param>
        protected override void Dispose(bool disposing)
        {
            if (disposing && (components != null))
            {
                components.Dispose();
            }
            base.Dispose(disposing);
        }

        #region Windows Form Designer generated code

        /// <summary>
        /// Required method for Designer support - do not modify
        /// the contents of this method with the code editor.
        /// </summary>
        private void InitializeComponent()
```

```
    {
        this.panel1 = new System.Windows.Forms.Panel();

        this.label1 = new System.Windows.Forms.Label();

        this.panel2 = new System.Windows.Forms.Panel();

        this.button1 = new System.Windows.Forms.Button();

        this.textBox6 = new System.Windows.Forms.TextBox();

        this.textBox5 = new System.Windows.Forms.TextBox();

        this.textBox4 = new System.Windows.Forms.TextBox();

        this.textBox2 = new System.Windows.Forms.TextBox();

        this.textBox1 = new System.Windows.Forms.TextBox();

        this.label8 = new System.Windows.Forms.Label();

        this.label7 = new System.Windows.Forms.Label();

        this.label6 = new System.Windows.Forms.Label();

        this.label3 = new System.Windows.Forms.Label();

        this.label2 = new System.Windows.Forms.Label();

        this.menuStrip1 = new System.Windows.Forms.MenuStrip();

        this.adminLoginToolStripMenuItem = new
System.Windows.Forms.ToolStripMenuItem();

        this.userToolStripMenuItem = new
System.Windows.Forms.ToolStripMenuItem();

        this.userRegisterToolStripMenuItem = new
System.Windows.Forms.ToolStripMenuItem();

        this.panel1.SuspendLayout();

        this.panel2.SuspendLayout();

        this.menuStrip1.SuspendLayout();

        this.SuspendLayout();
        //
        // panel1
        //
        this.panel1.BackColor = System.Drawing.SystemColors.ControlLightLight;

        this.panel1.BorderStyle = System.Windows.Forms.BorderStyle.FixedSingle;
```

```
this.panel1.Controls.Add(this.label1);

this.panel1.Location = new System.Drawing.Point(12, 38);

this.panel1.Name = "panel1";

this.panel1.Size = new System.Drawing.Size(861, 100);

this.panel1.TabIndex = 2;

//

// menuStrip1

//

this.menuStrip1.BackColor = System.Drawing.Color.White;

this.menuStrip1.Items.AddRange(new System.Windows.Forms.ToolStripItem[]
{

this.adminLoginToolStripMenuItem,

this.userToolStripMenuItem,

this.userRegisterToolStripMenuItem});

this.menuStrip1.Location = new System.Drawing.Point(0, 0);

this.menuStrip1.Name = "menuStrip1";

this.menuStrip1.Size = new System.Drawing.Size(873, 28);

this.menuStrip1.TabIndex = 4;

this.menuStrip1.Text = "menuStrip1";

//

// adminLoginToolStripMenuItem

//

this.adminLoginToolStripMenuItem.Font = new System.Drawing.Font("Arial
Narrow", 11.25F, System.Drawing.FontStyle.Bold,
System.Drawing.GraphicsUnit.Point, ((byte)(0)));

this.adminLoginToolStripMenuItem.ForeColor =
System.Drawing.Color.RoyalBlue;

this.adminLoginToolStripMenuItem.Name =
"adminLoginToolStripMenuItem";

this.adminLoginToolStripMenuItem.Size = new System.Drawing.Size(61, 24);

this.adminLoginToolStripMenuItem.Text = "Admin";
```

```csharp
            this.adminLoginToolStripMenuItem.Click += new
System.EventHandler(this.adminLoginToolStripMenuItem_Click);
            //
            // userToolStripMenuItem
            //
            this.userToolStripMenuItem.Font = new System.Drawing.Font("Arial Narrow",
11.25F, System.Drawing.FontStyle.Bold, System.Drawing.GraphicsUnit.Point,
((byte)(0)));
            this.userToolStripMenuItem.ForeColor = System.Drawing.Color.RoyalBlue;
            this.userToolStripMenuItem.Name = "userToolStripMenuItem";
            this.userToolStripMenuItem.Size = new System.Drawing.Size(49, 24);
            this.userToolStripMenuItem.Text = "User";
            this.userToolStripMenuItem.Click += new
System.EventHandler(this.userToolStripMenuItem_Click);
            //
            // userRegisterToolStripMenuItem
            //
            this.userRegisterToolStripMenuItem.Font = new System.Drawing.Font("Arial
Narrow", 11.25F, System.Drawing.FontStyle.Bold,
System.Drawing.GraphicsUnit.Point, ((byte)(0)));
            this.userRegisterToolStripMenuItem.ForeColor =
System.Drawing.Color.RoyalBlue;
            this.userRegisterToolStripMenuItem.Name =
"userRegisterToolStripMenuItem";
            this.userRegisterToolStripMenuItem.Size = new System.Drawing.Size(103, 24);
            this.userRegisterToolStripMenuItem.Text = "User Register";
            this.userRegisterToolStripMenuItem.Click += new
System.EventHandler(this.userRegisterToolStripMenuItem_Click);
```
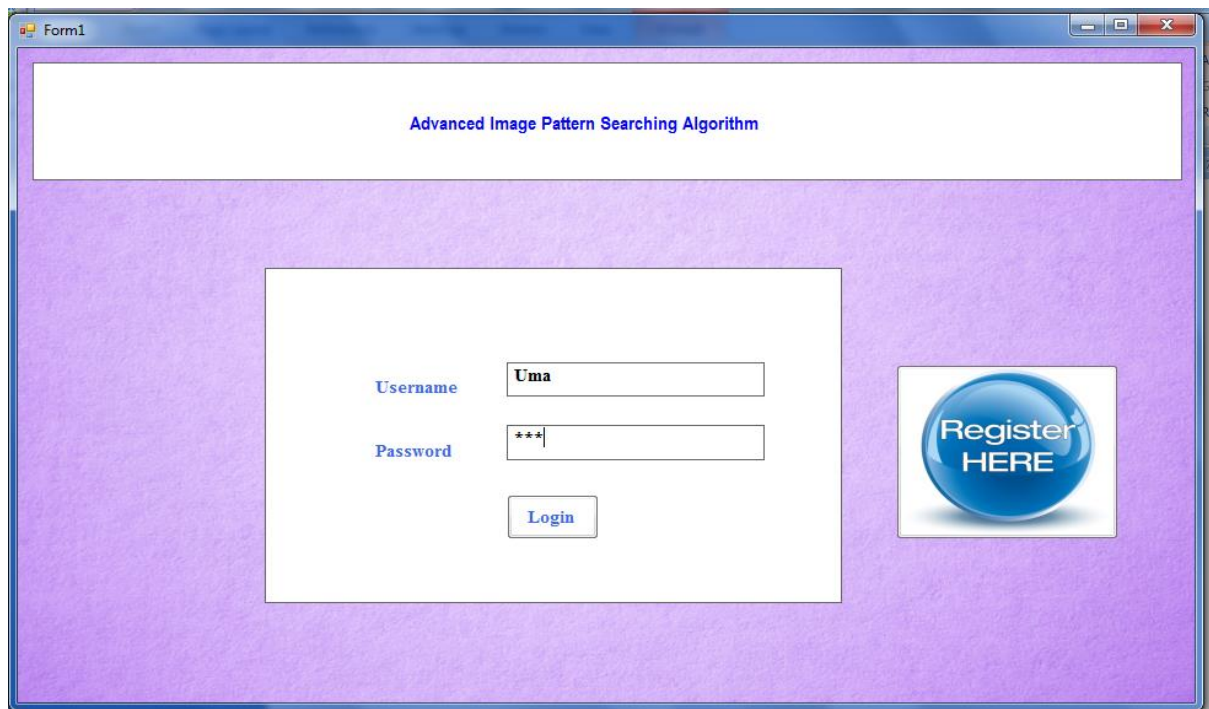
IMPLEMENTATION

ADMIN:

REGISTRATION:

HOME:

MERGE IMAGE:

MERGE TEXT:
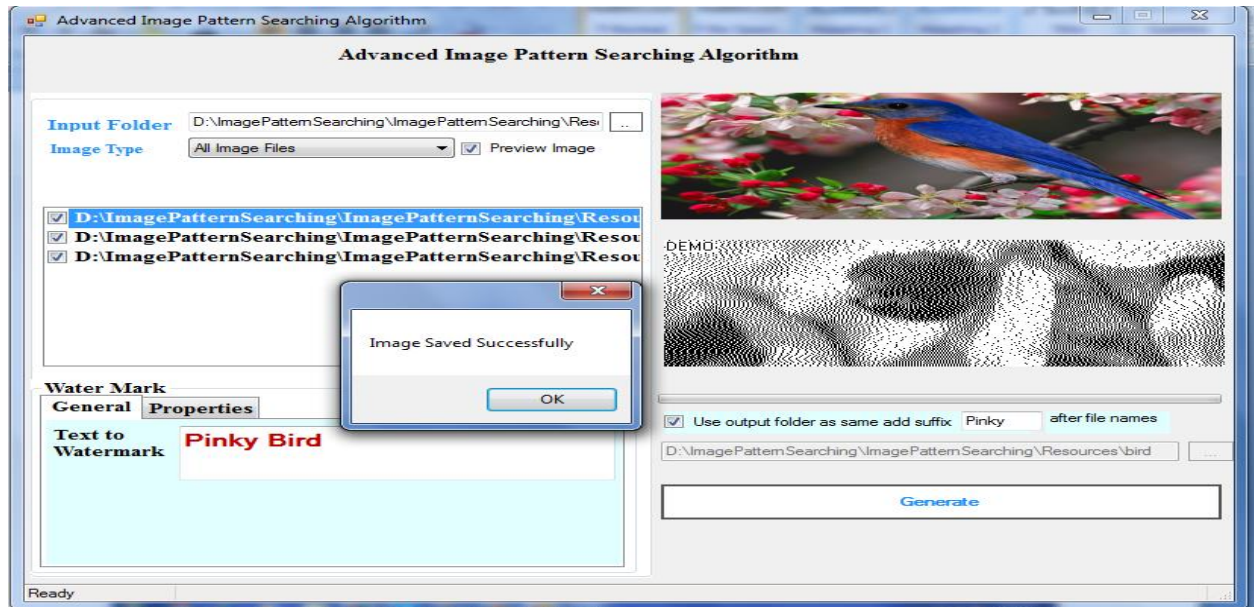
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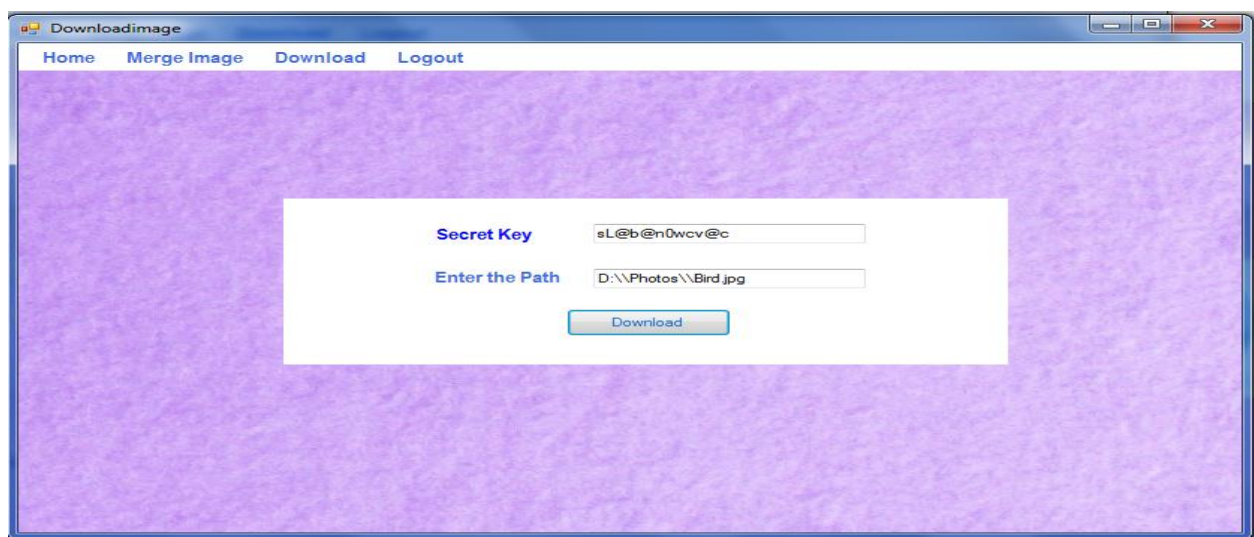
CONCLUSION

CONCLUSION:

By this software package, images are searched efficiently because of the usage of semi supervising algorithm and Image comparison is based on the pixels, resolution, height and width between the images. Based on these properties, matched images are listed out.

Image Processing is now called digital image processing, which requires computer knowledge and processes the digital signal picked up by a camera or scanner. Image processing is a method in which an image is received as input and by performing a series of operations on it, an image or a set of special symbols or variables related to the image is received as its output. In image processing, input contains image content, which by performing a series of operations

FUTURE ENHANCEMENT

FUTURE ENHANCEMENT:

In future we may extend this software package with the following enhancements. They are

- Live supported one
- Server based one
- Now we implement this one as the software but in future we may extend this as android app.

BIBILIOGRAPHY

BIBILIOGRAPHY:

i)   Books referred:

- ASP.NET

  (i)   The Complete Reference by Matthew MacDonald.

- ASP.NET

  (i)   Developers Guide by Buczek

- Software Engineering

  (i)   Roger S. Pressman.

- ASP.NET

  (i)   ASP.NET Professional by Wrox

- C#

  (i)   ASP.NET Professional by Wrox

ii) Websites:

www.c-sharpcorner.com

www.asp.net

www.microsoft.com

TO WHOM SO EVER IT MAY CONCERN .

This is to certify **Miss.S.Dinusha [Reg No : 2019BC06],Fatima College**, pursuing final year **BCA** is Completed for her Project Title **"ADVANCE IMAGE PATTERN "** in the platform of ASP.Net as front end with MS SQL as back end at Futurik Techechnologies Madurai From March To May 2022.

Futurik Technologies

Project Manager

STUDENT LOCATION TRACKER SYSTEM
PROJECT REPORT

A Project work submitted to Madurai Kamaraj University in partial

fulfilment of the requirements for the award of degree of
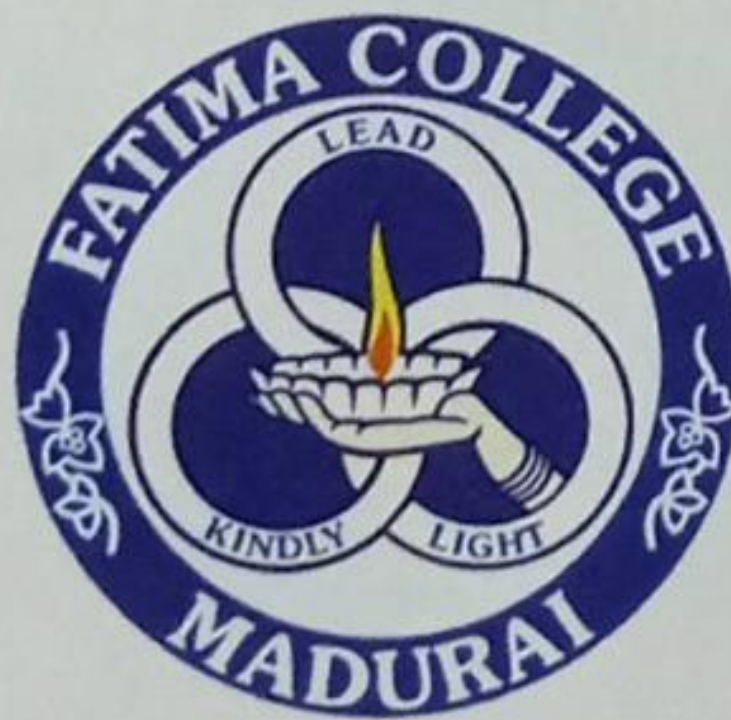
B.C.A (BACHELOR OF COMPUTER APPLICATIONS)

2021-2022

Submitted by

EZHILARASI K (2019BC07)

Under the Guidance of

Mrs. S. SELVARANI MCA, M.Phil., NET., SET.

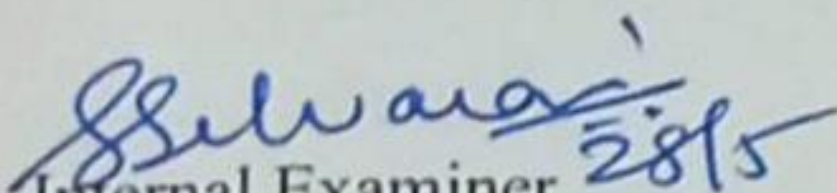**DEPARTMENT OF COMPUTER APPLICATIONS**
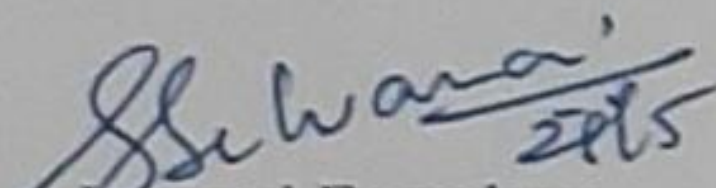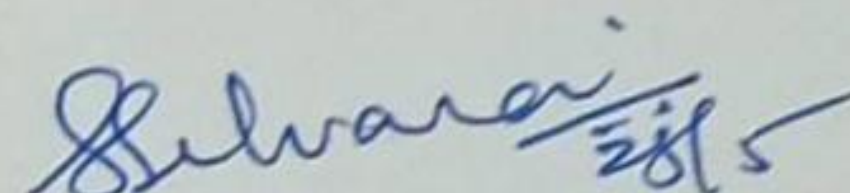
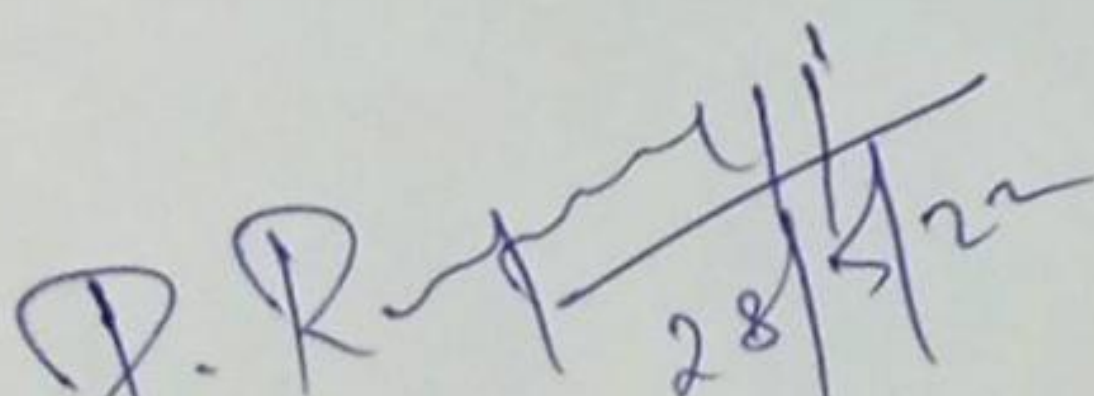**FATIMA COLLEGE (AUTONOMOUS)**
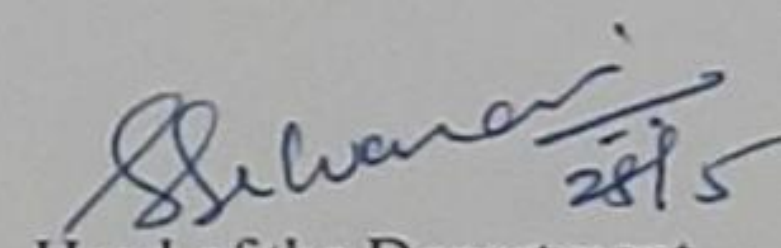
MADURAI-18
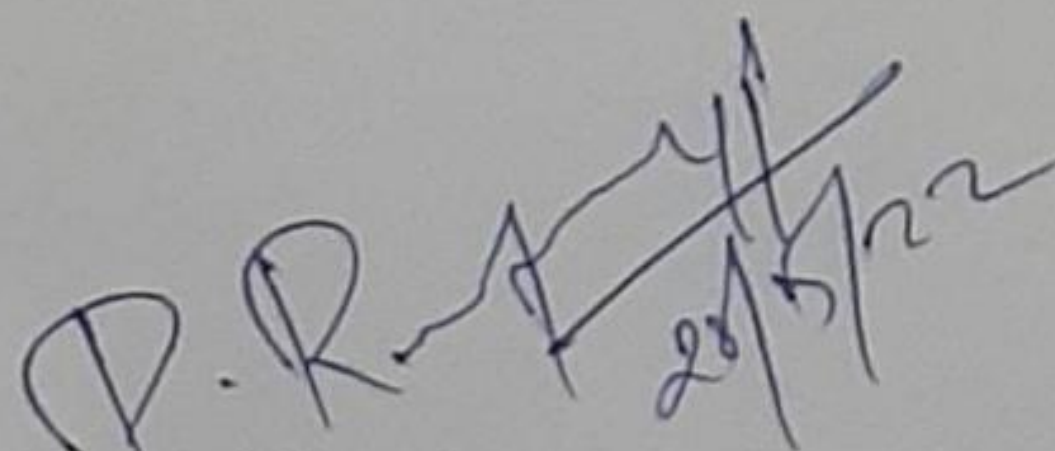
BONAFIDE CERTIFICATE

This is to certify that the project entitled **STUDENT LOCATION TRACKER SYSTEM** is a bonafide record work done by **EZHILARASI K (2019BC07)** in partial fulfilment of the requirement for the award of the Degree of B.C.A. (Bachelor of Computer Applications), Fatima College during the academic year 2019-2022.

Internal Examiner

Head of the Department

Submitted for the Viva-Voice Examination held on 28.05.2022

External Examiner

DECLARATION

I hereby declare that the project work entitled **"STUDENT LOCATION TRACKER SYSTEM"** is a project report of the original work done by myself. This project work is submitted to Fatima College (Affiliated to Madurai Kamaraj University) in partial fulfilment of the Degree of Bachelor of Computer Application during the academic year 2019 - 2022.

I declare that this project documentation or any part thereof has not been submitted for getting any degree or diploma from any university or college.

Place: MADURAI

Date: 28.05.2022

Signature

K. Ezhili

(K.EZHILARASI)

TO WHOM SO EVER IT MAY CONCERN

This is to certify **Miss .K.Ezhilarasi [Reg No : 2019BC07],Fatima College,** pursuing final year **BCA** is Completed for her Project Title **"STUDENT LOCATION TRACKER SYSTEM "** in the platform of ASP.Net as front end with MS SQL as back end at Futurik Techechnologies Madurai From March To May 2022.

FUTURIK TECHNOLOGIES

Project Manager

+91 96559 79888   www.futuriktechnologies.com

Plot 60, Railar Nagar, Ist Street, Thamarai Veethi, Shanthi Nagar, Madurai – 625018.

EVENT HALL BOOKING AND MAILING ALERT SYSTEM

PROJECT REPORT

A Project work submitted to Madurai Kamaraj University in partial

fulfillments of the requirements for the award of degree of
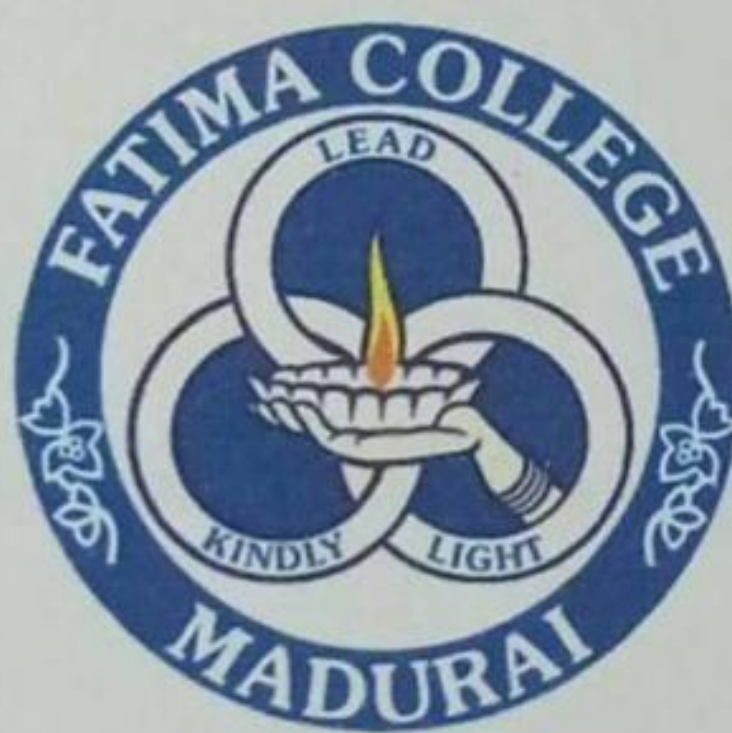(BACHELOR OF COMPUTER APPLICATIONS)

2021-2022

Submitted by

S.FAIZ BANU (2019BC08)

Under the Guidance of

DR.G.PREETHA M.sc(I.T).,M.Phil., Ph.D.
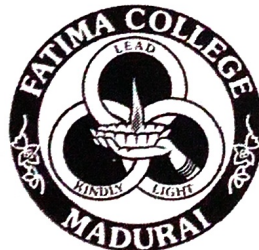
DEPARTMENT OF COMPUTER APPLICATIONS

FATIMA COLLEGE (AUTONOMOUS)

MADURAI-18.

ACKNOWLEDGMENT

I thank GOD for his substantial blessings and mercy at all stages of the completion of this project.

I thank my parents for their blessings and also my friends for their sacrifices in supporting me.

I feel honoured to place warm salutation to the management of **FATIMA COLLEGE, MADURAI** who gave me the opportunity to have the strong base in computer and technical knowledge.

I express my sincere thanks to **Rev. Dr. Sr. G. CELINE SAHAYA MARY,** Principal, Fatima College, and Madurai for giving me a comfortable environment to complete this project.

I express my sincere thanks to **Dr. Sr. G.JENITA RANI** and **Dr. S. L .KUMARI (SHIFT-2),**Vice Principals, Fatima College, Madurai for their extensive support rendered to carry out this project successfully.

I express my sincere thanks to **Mrs. S .SELVARANI,** Head, Department of BCA, for her valuable guidance and encouragement.

I express my sincere thanks to **Mrs. Dr. G.PREETHA,** Department of BCA, for her valuable guidance and encouragement.

I like to thank all the staff members of BCA Department, Fatima College, for their valuable suggestions at different stages of this project work.

I am grateful to explore my thanks to the people whose constant inspiration, guidance and blessings made this project a successful one.

DECLARATION

I, hereby declare that the project work entitled –**EVENT HALL BOOKING AND MAILING ALERT SYSTEM**‖ is a project report of the original work done by myself. This project work is submitted to Fatima College (Affiliated to Madurai Kamaraj University) in partial fulfillment of the Degree of Bachelor of Computer Application during the academic year 2019-2022.

I declare that this project documentation or any part thereof has not been submitted for getting any degree or diploma from any university or college.

Place: MADURAI

Signature:
S. Faiz banu.
S. Faiz Banu

Date: 28|05|22
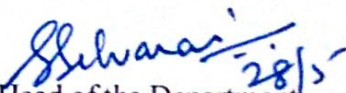
DEPARTMENT OF COMPUTER APPLICATIONS

BONAFIDE CERTIFICATE

This is to certify that the project entitled –**EVENT HALL BOOKING AND MAILING ALERT SYSTEM** is a bonafide record work done BY **S.FAIZ BANU (2019BC08)** in partial fulfillment of the requirement for the award of the Degree of BCA (Bachelor of Computer Applications), Fatima College during the academic year 2019-2022.

G.Preetha 28/05/22

Internal Examiner

Head of the Department

Submitted for the Viva-Voice Examination held on ___28/05/22___

External Examiner

Neptunix technology

TO WHOM SO EVER IT MAY CONCERN

This is to certify **Miss .S.Faiz Banu [Reg No : 2019BC08],Fatima College,** pursuing final year **BCA** is Completed for her Project Title **"EVENT HALL BOOKING AND MAILING ALERT SYSTEM** " in the platform of ASP.Net as front end with MS SQL as back end at Neptuix Techechnologey Madurai From March To May 2022.

NEPTUNIX TECHNOLOGEY

R Karthasuari
Project Manager

8870444723

19 th Meenakshi illam Krishnapuram colony madurai 14

QR CODE AUTHENTICATION IN CLOUD FILE ACCESS

PROJECT REPORT

A Project work submitted to Madurai Kamaraj University in partial fulfilment of the requirements for the award of degree of

(BACHELOR OF COMPUTER APPLICATIONS)

2021-2022

Submitted by

B.HARITHA (Reg.No.2019BC10)

Under the Guidance of

Mrs. S.SELVARANI, MCA., M.Phil., NET., SET

DEPARTMENT OF COMPUTER APPLICATION

FATIMA COLLEGE (AUTONOMOUS)

MADURAI-18

DEPARTMENT OF COMPUTER APPLICATIONS

BONAFIDE CERTIFICATE

This is to certify that the project entitled **"QR CODE AUTHENTICATION IN CLOUD FILE ACCESS"** is a bonafide record work done by **B.HARITHA (2019BC10)** in partial fulfilment of the requirement for the award of the Degree of Bachelor of Computer Applications, Fatima College during the academic year 2019-2022.

Internal Examiner 28/5

Head of the Department

Submitted for the Viva-Voice Examination held on 28.05.2022

External Examiner

DECLARATION

I hereby declare that the project work entitled "**QR CODE AUTHENTICATION IN CLOUD FILE ACCESS**"is a project report of the original work done by myself. This project work is submitted to Fatima College (Affiliated to Madurai Kamaraj University) in partial fulfilment of the Degree of Bachelor of Computer Application during the academic year 2019-2022.

I declare that this project documentation or any part thereof has not been submitted for getting any degree or diploma from any university or college.

Place: MADURAI

Date: 28.05.2022

Signature

(B.HARITHA)

B. Haritha

mbuzz Technologies Private Limited

TO WHOM SO EVER IT MAY CONCERN

This is to certify **Miss. HARITHA.B[Reg No: 2019BC10], Fatima College,** pursuing final year CA is Completed for her Project Title **"QR CODE AUTHENTICATION IN CLOUD FILE ACCESS** n the platform of ASP.Net as front end with MS SQL as back end at Embuzz Technologies Madurai From arch To May 2022.

EMBUZZ TECHNOLOGIES

Project Manager

Embuzz Technologies
Madurai.

REAL TIME PRODUCT MONITORING AND TRACKING SYSTEM
USING FINGERPRINT RECOGNITION

PROJECT REPORT

A Project work submitted to Madurai Kamaraj University in partial
fulfilment of the requirements for the award of degree of

BACHELOR OF COMPUTER APPLICATIONS

2021-2022

Submitted by

B.HARSHNI (Reg.No.2019BC11)

Under the Guidance of

DR.G.PREETHA,M.Sc(IT)., M.Phil., Ph.d.,

DEPARTMENT OF COMPUTER APPLICATIONS

FATIMA COLLEGE (AUTONOMOUS)

MADURAI-18.

DEPARTMENT OF COMPUTER APPLICATIONS

BONAFIDE CERTIFICATE

This is to certify that the project entitled **"REAL TIME PRODUCT MONITORING AND TRACKING SYSTEM USING FINGERPRINT RECOGNITION"** is a bonafide record work done by **B.HARSHNI (Reg.No.2019BC11)** in partial fulfilment of the requirement for the award of the Degree of Bachelor of Computer Applications, Fatima College during the academic year 2019-2022.

G. Preetha 28/05/22

Internal Examiner

SSilvari 28/5/22

Head of the Department

Submitted for the Viva-Voice Examination held on 28/05/22

External Examiner

DECLARATION

I hereby declare that the project work entitled **"REAL TIME PRODUCT MONITORING AND TRCAKING SYSTEM USING FINGERPRINT RECOGNITION"** is a project report of the original work done by myself. This project work is submitted to Fatima College (Affiliated to Madurai Kamaraj University) in partial fulfilment of the Degree of Bachelor of Computer Application during the academic year 2019-2022.

I declare that this project documentation or any part there of has not been submitted for getting any degree or diploma from any university or college.

Place: MADURAI

Date: 28|05|22

Signature

B-Harshni

(B HARSHNI)

PROJECT COMPLETION CERTIFICATE

This is to certify that **Miss. B. Harshni (Reg No 2019BC11)** a student of **Fatima college of Arts & Science**, pursing final year **BCA** has successfully completed a project work between March-2022 to May-2022 Entitled **"REAL TIME PRODUCT MONITORING AND TRACKING SYSTEM USING FINGER PRINT RECOGNITION"**.

For Pantech ProEd Privated Ltd

Project Manager,

PLACEMENT PROCUREMENT SCHEDULING SYSTEM

PROJECT REPORT

A Project work submitted Madurai Kamaraj University in partial

fulfilment of the requirements for the award of degree of

BACHELOR OF COMPUTER APPLICATIONS

2021-2022

Submitted by

M.HEEPHASRI (Reg.No.2019BC12)

Under the Guidance of
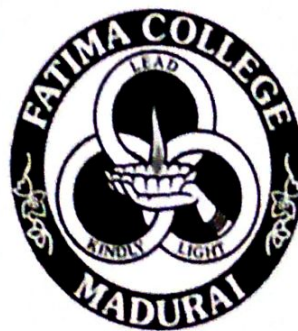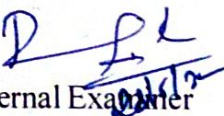
Mrs. R. RAMYA , M.C.A. SLET.

DEPARTMENT OF COMPUTER APPLICATIONS

FATIMA COLLEGE (AUTONOMOUS)

MADURAI-18

DEPARTMENT OF COMPUTER APPLICATIONS

BONAFIDE CERTIFICATE

This is to certify that the project entitled **"PLACEMENT PROCUREMENT SCHEDULING SYSTEM"** is a bonafide work done by **M. HEEPHASRI (2019BC12)** in partial fulfilment of the requirement for the award of the Degree of B.C.A. (Bachelor of Computer Applications), Fatima College during the academic year 2019-2022.

Internal Examiner

Head of the Department

Submitted for the Viva-Voice Examination held on 28-05-2022

External Examiner

DECLARATION

I hereby declare that the project work entitled **"PLACEMENT PROCUREMENT SCHEDULING SYSTEM"** is a project report of the original work done by myselves . This project work is submitted to Fatima College (Affiliated to Madurai Kamaraj University) in partial fulfilment of the Degree of Bachelor of Computer Applications during the academic year 2019 -2022.

I declare that this project documentation or any part thereof has not been submitted forgetting any degree or diploma from any university or college.

Place: MADURAI

Date: 28.05.2022

Signature

M. Heephasri

(M.HEEPHASRI)

TO WHOM SO EVER IT MAY CONCERN

This is to certify **Miss. M. Heephasri [Reg No : 2019BC12],Fatima College,** pursuing final year BCA is Completed for her Project Title **"PLACEMENT PROCUREMENT SCHEDULING SYSTEM"** in the platform of ASP.Net as front end with MS SQL as back end at Neptunix Techechnology Madurai From March To May 2022.

NEPTUNIX TECHNOLOGY

R. Karthaeswari

Project Manager

IoT BASED SMART AGRICULTURE MONITORING SYSTEM

PROJECT REPORT

A Project work submitted to Madurai Kamaraj University in partial

fulfilment of the requirements for the award of degree of

BACHELOR OF COMPUTER APPLICATIONS

2021-2022

Submitted by

V.R.HEMALATHA (Reg.No.2019BC13)

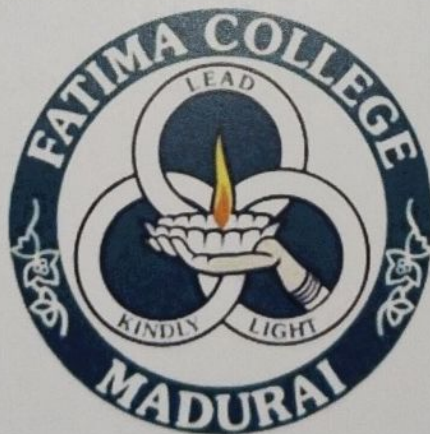**V.THANUSHA (Reg.No 2019BC42)**

Under the Guidance of

Dr.G.PREETHA , M.Sc(IT) ., M.Phil ., Ph.D.

DEPARTMENT OF COMPUTER APPLICATIONS

FATIMA COLLEGE (AUTONOMOUS)

MADURAI-18

DEPARTMENT OF COMPUTER APPLICATIONS

BONAFIDE CERTIFICATE

This is to certify that the project entitled "IoT BASED SMART AGRICULTURE MONITORING SYSTEM" is a bonafide record work done by V.R.HEMALATHA (2019BC13) AND V.THANUSHA (2019BC42) in partial fulfillment of the requirement for the award of the Degree of B.C.A. (Bachelor of Computer Applications), Fatima College during the academic year 2019-2022.

G. Preetha 28/05/22

Internal Examiner

Selvarani 3d5

Head of the Department

Submitted for the Viva-Voice Examination held on 28.05.2022

External Examiner

DECLARATION

We hereby declare that the project work entitled "IoT BASED SMART AGRICULTURE MONITORING SYSTEM" is a project report of the original work done by ourselves. This project work is submitted to Fatima College (Affiliated to Madurai Kamaraj University) in partial fulfillment of the Degree of Bachelor of Computer Applications during the academic year 2019 -2022.

We declare that this project documentation or any part thereof has not been submitted for getting any degree or diploma from any university or college.

Place: MADURAI

Date: 28.06.2022

Signature

V.R. Hemalatha

1. (V.R.HEMALATHA)

2. (V.THANUSHA)

Embuzz Technologies Private Limited

TO WHOM SO EVER IT MAY CONCERN

This is to certify **Miss V.R.Hemalatha [Reg No :2019BC13],Fatima College**, pursuing final year **BCA** is Completed for her Project Title "SMART AGRICULTURE MONITORING SYSTEM" in the platform of IOT as front end with Embedded C++ as back end at Embuzz Techechnologies Madurai From March To May 2022.

Embuzz Technologies
Madurai.

EMBUZZ TECHNOLOGIES

Project Manager

TOP-K MONITORING ON DOCUMENT STREAM IN DATAMINING

A Project Submitted to Madurai Kamaraj University in Partial
.Fulfilment of the Requirement for the Award of Degree of

BACHELOR OF COMPUTER APPLICATIONS

2021-2022

Submitted by

S.JOY BLESSY (Reg.No2019BC14)

Under the Guidance of

Dr. G. PREETHA, M.Sc (IT), M.Phil., PhD.

DEPARTMENT OF COMPUTER APPLICATIONS

FATIMA COLLEGE (AUTONOMOUS)

MADURAI-18

DEPARTMENT OF COMPUTER APPLICATIONS

BONAFIDE CERTIFICATE

This is to certify that the Project Report entitled **"TOP-K MONITORING ON DOCUMENT STREAM IN DATA MINING** "is the bonafide record work done by, **S.Joy blessy (2019BC14)** in partial fulfilment for the award of the degree of Bachelor of Computer application, Fatima College during the academic year 2019-2022 .

G. Preetha 28|05|22

Internal Examiner

Head of the Department

Submitted for the viva-voce Examination held on ___28-05.2022___

External Examiner
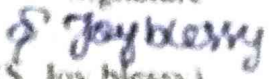
DECLARATION

I hereby declare that the project work entitled **"TOP-K MONITORING ON DOCUMENT STREAM IN DATA MINING"** is a project report of the original work done by myself. This project work is submitted to Fatima College (Affiliated to Madurai Kamaraj University) in partial fulfilment of the degree of Bachelor of Computer applications during the academic year 2019-2022.

I declare that this dissertation or any part has not been submitted for getting any degree or diploma from any university or college.

Place: MADURAI

Date: 28 . 05 - 2022

Signature

S. Joy blessy

(S. Joy blessy)

Embuzz
TECHNOLOGIES
THE VOICE OF EMBEDDED

<u>TO WHOM SO EVER IT MAY CONCERN</u>

This is to certify **Miss .S.Joyblessy[Reg No : 2019BC14],Fatima College,** pursuing final year **BCA** completed for her Project Title **"TOP-K MONITORING ON DOCUMENT STREAM IN MINING "** in the platform of ASP.Net as front end with MS SQL as back end at Embuzz Technologies Madurai From March To May 2022.

EMBUZZ TECHNOLOGIES

Project Manager

Embuzz Technologies Madurai.

ACKNOWLEDGEMENT

I am grateful to mention the people whose constant inspiration, guidance and blessings made my project a successful one.

I thank god for his substantial blessings and mercy at all stages of the completion of my project. Taking this opportunity, I thank my parents and friends for their sacrifices in supporting me.

I feel myself honoured to place warm salutation to the management of **FATIMA COLLEGE, MADURAI** which gave me the opportunity to have the strong basin computer and technical knowledge.

I express my sincere thanks to **REV. SR. CELINE SAHAYA MARY, Principal, Fatima College, and Madurai** for giving me a comfortable environment.

I express my sincere thanks to **REV. SR. JENITA RANI and Dr. S. L. KUMARI, Vice principal** for her extensive support rendered to carry out this project successfully.

I express my special thanks to **Mrs. S. SELVARANI, M.C.A., M.Phil. NET., SET., (Head Of the Department) Department of Computer Applications,** for her valuable guidance and encouragement.

I express my special thanks to **Dr. G. PREETHA, M.Sc. (IT), M.Phil., Ph.D., Department of Computer Applications,** for her valuable guidance and encouragement.

I like to thank all the staff members in Department of Computer Application Fatima College, for their valuable suggestions at different stages of this project work.

I am grateful to explore my thanks to the people whose consent inspiration, guidance and blessings made this project a successful one.

HEART RATE DETECTION AND HEART RATE MONITOR

PROJECT REPORT

A Project work submitted to Madurai Kamaraj University in partial
fulfilment of the requirements for the award of degree of

B.C.A(BACHELOR OF COMPUTER APPLICATIONS)

2021-2022

Submitted by

M. HARISHMA (Reg.No.2019BC09)

G. KANIMOZHI (Reg.No.2019BC15)

D. KAVYA (Reg.No.2019BC16)

Under the Guidance of

Mrs. R. RAMYA, MCA., SLET.

Mrs. S. SELVARANI, MCA, M.Phil., NET., SET.

DEPARTMENT OF COMPUTER APPLICATIONS

FATIMA COLLEGE (AUTONOMOUS)

MADURAI-18

DEPARTMENT OF COMPUTER APPLICATIONS

BONAFIDE CERTIFICATE

This is to certify that the project entitled **"HEART RATE DETECTION AND HEART RATE MONITOR"** is a bonafide record work done by **M. HARISHMA (Reg.No.2019BC09), G. KANIMOZHI (Reg.No.2019BC15) AND D. KAVYA (Reg.No.2019BC16)** in partial fulfilment of the requirement for the award of the Degree of B.C.A. (Bachelor of Computer Applications), Fatima College during the academic year 2019-2022.

Internal Examiner

Head of the Department

Submitted for the Viva-Voice Examination held on _28.05.2022_

External Examiner

DECLARATION

We hereby declare that the project work entitled "**HEART RATE DETECTION AND HEART RATE MONITOR**" is a project report of the original work done by ourselves. This project work is submitted to Fatima College (Affiliated to Madurai Kamaraj University) in partial fulfilment of the Degree of Bachelor of Computer Application during the academic year 2019-2022.
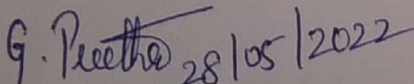
We declare that this project documentation or any part there of has not been submitted for getting any degree or diploma from any university or college.

Place: MADURAI

Date: 28.05.2022

Signature

M. Harishma

1. (M. HARISHMA)

G. Kanimozhi

2. (G.KANIMOZHI)

D. kavya

3. (D. KAVYA)

TOPPERS IT SOLUTION

TO WHOM SO EVER IT MAY CONCERN

This is to certify **Miss .G. KANIMOZHI [Reg. No: 2019BC15], Fatima College,** pursuing final year **BCA** is completed for her Project Title **"HEART RATE DETECTION AND HEART RATE MONITOR"** in the platform of Thingspeak cloud as front end with embedded c/cpp as back end at Toppers IT Solutions Madurai From March To May 2022.

TOPPERS IT SOLUTION

Project Manager

TOPPERS IT SOLUTION
MADURAI.

HEART RATE DETECTION AND HEART RATE MONITOR

PROJECT REPORT

A Project work submitted to Madurai Kamaraj University in partial

fulfilment of the requirements for the award of degree of

B.C.A(BACHELOR OF COMPUTER APPLICATIONS)

2021-2022

Submitted by

M. HARISHMA (Reg.No.2019BC09)

G. KANIMOZHI (Reg.No.2019BC15)

D. KAVYA (Reg.No.2019BC16)

Under the Guidance of

Mrs. R. RAMYA, MCA., SLET.

Mrs. S. SELVARANI, MCA, M.Phil., NET., SET.

DEPARTMENT OF COMPUTER APPLICATIONS

FATIMA COLLEGE (AUTONOMOUS)

MADURAI-18

DEPARTMENT OF COMPUTER APPLICATIONS

BONAFIDE CERTIFICATE

This is to certify that the project entitled **"HEART RATE DETECTION AND HEART RATE MONITOR"** is a bonafide record work done by **M. HARISHMA (Reg.No.2019BC09), G. KANIMOZHI (Reg.No.2019BC15) AND D. KAVYA (Reg.No.2019BC16)** in partial fulfilment of the requirement for the award of the Degree of B.C.A. (Bachelor of Computer Applications), Fatima College during the academic year 2019-2022.

Internal Examiner

Head of the Department

Submitted for the Viva-Voice Examination held on ___28 .05 . 2022___

External Examiner

DECLARATION

We hereby declare that the project work entitled "**HEART RATE DETECTION AND HEART RATE MONITOR**" is a project report of the original work done by ourselves. This project work is submitted to Fatima College (Affiliated to Madurai Kamaraj University) in partial fulfilment of the Degree of Bachelor of Computer Application during the academic year 2019-2022.

We declare that this project documentation or any part there of has not been submitted for getting any degree or diploma from any university or college.

Place: MADURAI

Date: 28.05.2022

Signature

M. Harishma

1. (M. HARISHMA)

G. Kanimozhi

2. (G.KANIMOZHI)

D. kavya.

3. (D. KAVYA)

TOPPERS IT SOLUTION

TO WHOM SO EVER IT MAY CONCERN

This is to certify **Miss .D. KAVYA [Reg. No: 2019BC16], Fatima College,** pursuing final year **BCA** is completed for her Project Title "**HEART RATE DETECTION AND HEART RATE MONITOR**" in the platform of Thingspeak cloud as front end with embedded c/cpp as back end at Futurik Technologies Madurai From March To May 2022.

FUTURIK TECHNOLOGIES

Project Manager

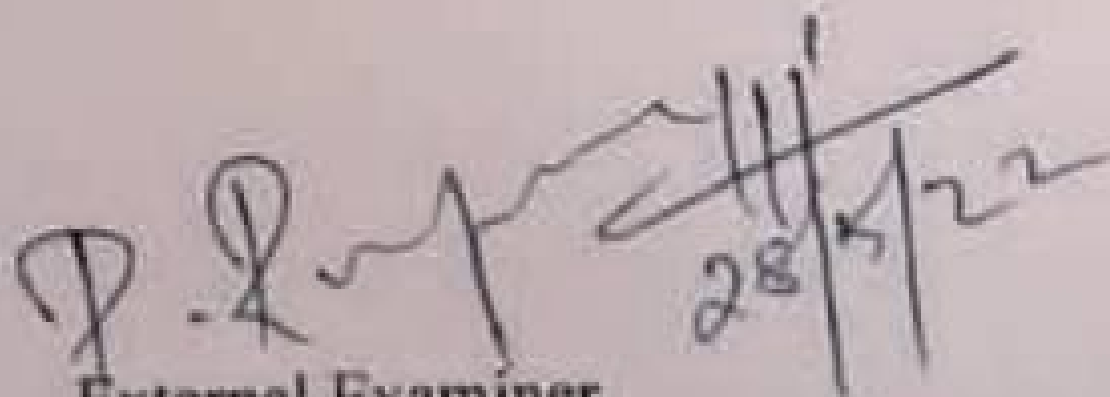TOPPERS IT SOLUTION
MADURAI.

9994134616

ELECTRICITY DEMAND BASED MANAGEMENT OF HOME

LEGACY APPLIANCES THROUGH IoT TECHNOLOGY IN CEB

PROJECT REPORT

A Project work submitted to Madurai Kamaraj University in partial

fulfilment of the requirements for the award of degree of

BACHELOR OF COMPUTER APPLICATIONS

2021-2022

Submitted by

N. MADHUMITHA(2019BC18)

A. RESHMA(2019BC24)

Under the Guidance of

Dr. G. PREETHA, M.Sc (IT) ,M.phil.,Ph.D.

DEPARTMENT OF COMPUTER APPLICATIONS

FATIMA COLLEGE (AUTONOMOUS)

MADURAI-18

1

DEPARTMENT OF COMPUTER APPLICATIONS

BONAFIDE CERTIFICATE

This is to certify that the project entitled **"Electricity Demand Based Management of Home Legacy Appliances Through IoT Technology in CEB"** is a bonafide record work done by **N. MADHUMITHA(2019BC18) &**

A. RESHMA(2019BC24) in partial fulfilment of the requirement for the award of the Degree of B.C.A. (Bachelor of Computer Applications), Fatima College during the academic year 2019-2022.

G. Preetha 28/05/2022

Internal Examiner

Selvarani 28/5

Head of the Department

Submitted for the Viva-Voice Examination held on 28.05.2022

P. Ruf 28/5/22

External Examiner

DECLARATION

We hereby declare that the project work entitled **"Electricity Demand Based Management of Home Legacy Appliances Through IoT Technology in CEB"** is a project report of the original work done by ourselves. This project work is submitted to Fatima College (Affiliated to Madurai Kamaraj University) in partial fulfilment of the Degree of Bachelor of Computer Applications during the academic year 2019-2022.

I declare that this project documentation or any part thereof has not been submitted for getting any degree or diploma from any university or college.

Place: MADURAI

Date: 28·05·2022

Signature

(N. MADHUMITHA)

(A. RESHMA)

Date: 04/04/2022

TO WHOM SO EVER IT MAY CONCEN

This is a certify **Miss. Madhumitha N [Reg No: 2019BC18]**, Fatima College, pursuing final year **BCA** is completed her Project Title "Eletricity Demand Based Management of Home IoT Technology in CEB"at E-dot Technologies Tirunelveli from April 2022

(S. Babu Sankar Ganesh)

Managing Director,

E-dot Technologies,irunelveli.

FILE HACKING ALERT USING FOG COMPUTING

PROJECT REPORT

A Project work submitted to Madurai Kamaraj University in partial

fulfilment of the requirements for the award of degree of

B.C.A (BACHELOR OF COMPUTER APPLICATIONS)

2021-2022

Submitted by

MAHALAKSHMI M (2019BC19)

Under the Guidance of

Mrs. R. RAMYA MCA.,SLET.

DEPARTMENT OF COMPUTER APPLICATIONS

FATIMA COLLEGE (AUTONOMOUS)

MADURAI-18

DECLARATION

I hereby declare that the project work entitled **"FILE HACKING ALERT USING FOG COMPUTING"** is a project report of the original work done by ourselves. This project work is submitted to Fatima College (Affiliated to Madurai Kamaraj University) in partial fulfilment of the Degree of Bachelor of Computer Application during the academic year 2019-2022.

I declare that this project documentation or any part thereof has not been submitted for getting any degree or diploma from any university or college.

Place: MADURAI

Date: 28.05.2022

Signature

M. Mahalakshmi

(M.MAHALAKSHMI)

TO WHOM SO EVER IT MAY CONCERN

This is to certify **Miss .M.Mahalakshmi [Reg No : 2019BC19],Fatima College**, pursuing final year **BCA** is Completed for her Project Title **"FILE HACKING ALERT USING FOG COMPUTING"** in the platform of ASP.Net as front end with MS SQL as back end at Futurik Techechnologies Madurai From March To May 2022.

FUTURIK TECHNOLOGIES

Project Manager

+91 96559 79888   www.futuriktechnologies.com

Plot 60, Railar Nagar, Ist Street, Thamarai Veethi, Shanthi Nagar, Madurai - 625018.
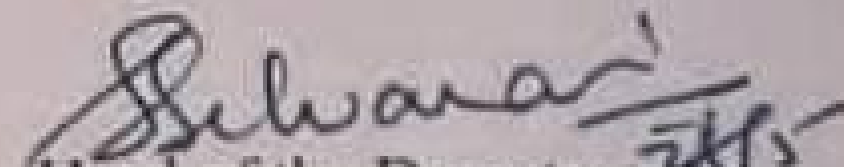
BONAFIDE CERTIFICATE

This is to certify that the project entitled **FILE HACKING ALERT USING FOG COMPUTING** is a bonafide record work done by **MAHALAKSHMI M (2019BC19)** in partial fulfilment of the requirement for the award of the Degree of B.C.A. (Bachelor of Computer Applications), Fatima College during the academic year 2019-2022.

Internal Examiner

Head of the Department

Submitted for the Viva-Voice Examination held on 28.05.2022

External Examiner

CRIME INVESTIGATION AND TRACK COMPLAINTS

PROJECT REPORT

A Project work submitted to Madurai Kamaraj University in partial

fulfilment of the requirements for the award of degree of

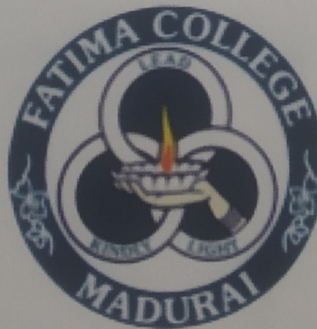## B.C.A (BACHELOR OF COMPUTER APPLICATIONS)

2021-2022

Submitted by

J. MARIYA JENIFER (2019BC20)

Under the Guidance of
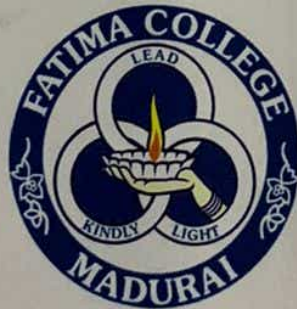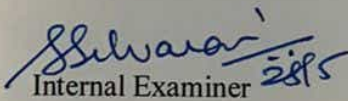
Mrs. S. SELVARANI MCA., M.Phil., NET., SET.,

DEPARTMENT OF COMPUTER APPLICATIONS
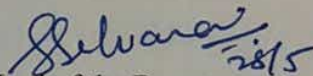
FATIMA COLLEGE (AUTONOMOUS)

MADURAI-18
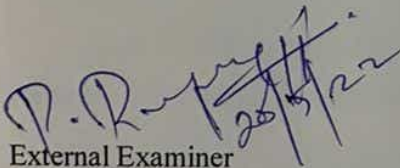
BONAFIDE CERTIFICATE

This is to certify that the project entitled **"CRIME INVESTIGATION AND TRACK COMPLAINTS"** is a bonafide record work done by **J. MARIYA JENIFER (2019BC20)** in partial fulfilment of the requirement for the award of the Degree of B.C.A (Bachelor of Computer Applications), Fatima College during the academic year 2019-2022.

Internal Examiner

Head of the Department

Submitted for the Viva-Voice Examination held on 28.05.2022

External Examiner

DECLARATION

I hereby declare that the project work entitled **"CRIME INVESTIGATION AND TRACK COMPLAINTS"** is a project report of the original work done by myself. This project work is submitted to Fatima College (Affiliated to Madurai Kamaraj University) in partial fulfilment of the Degree of Bachelor of Computer Application during the academic year 2019-2022.

I declare that this project documentation or any part thereof has not been submitted for getting any degree or diploma from any university or college.

Place: MADURAI

Date: 28.05.2022

Signature

J. Mariya Jenifer

(J. MARIYA JENIFER)

ACKNOWLEDGMENT

I thank GOD for his substantial blessings and mercy at all stages of the completion of this project.
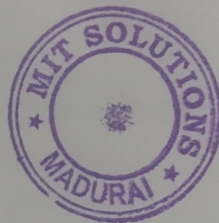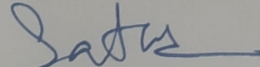
I thank my parents for their blessings and also my friends for their sacrifices in supporting us.

I feel honoured to place warm salutation to the management of **FATIMA COLLEGE, MADURAI** who gave us the opportunity to have the strong base in computer and technical knowledge.

I express my sincere thanks to **Dr. Sr. G. CELINE SAHAYA MARY, Principal, Fatima College, Madurai** for giving us a comfortable environment to complete this project.

I express my sincere thanks to **Dr. G. JENITA RANI and Dr. S. L KUMARI, Vice Principals, Fatima College, Madurai** for their extensive support rendered to carry out this project successfully.

I express my sincere thanks to **Mrs. S. SELVARANI, Head, Department of Computer Application,** for her valuable guidance and encouragement.

I like to thank all the staff members of Department of Computer Applications, Fatima College, for their valuable suggestions at different stages of this project work.

I am grateful to explore my thanks to the people whose constant inspiration, guidance and blessings made this project a successful one.

TO WHOM SO EVER IT MAY CONCERN

This is to certify **Miss .J. Mariya Jenifer [Reg No : 2019BC20],Fatima College,** pursuing final year **BCA** is Completed for her Project Title " **CRIME INVESTIGATION AND TRACK COMPLAINTS** " in the platform of ASP.Net as front end with MS SQL as back end at Futurik Techechnologies Madurai From March To May 2022.

FUTURIK TECHNOLOGIES

Project Manager

+91 96559 79888   www.futuriktechnologies.com

Plot 60, Railar Nagar, Ist Street, Thamarai Veethi, Shanthi Nagar, Madurai – 625018.

EXAM HALL LOCATION SMS ALERT
SYSTEM USING ANDROID

PROJECT REPORT

A Project work submitted to Madurai Kamaraj University in partial
Fulfillment of the requirements for the award of degree of B.C.A
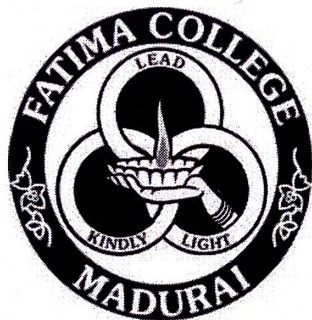(BACHELOR OF COMPUTER APPLICATIONS)

2021-2022

Submitted by

S.NAGA BRINDHA (Reg.no.2019BC21)

Under the Guidance of

Dr. G.PREETHA, M.S(IT), M.Phil., Ph.D.

DEPARTMENT OF COMPUTER APPLICATIONS
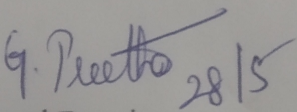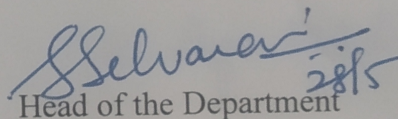
FATIMA COLLEGE (AUTONOMOUS)

MADURAI-18

1
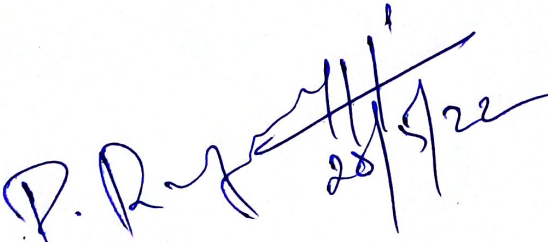
DEPARTMENT OF COMPUTER APPLICATIONS
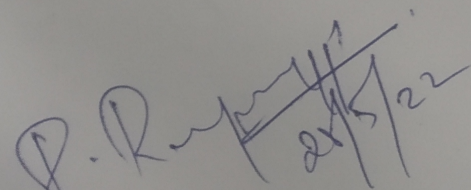
BONAFIDE CERTIFICATE

This is to certify that the project entitled **"Exam hall location sms alert system using android"** is a bonafide record work done by **S. NAGA BRINDHA (2019BC21)** in partial fulfillment of the requirement for the award of the Degree of B.C.A. (Bachelor of Computer Applications), Fatima College during the academic year 2019-2021.

Internal Examiner

Head of the Department

Submitted for the Viva-Voice Examination held on 28 - 05 - 2022

External Examiner
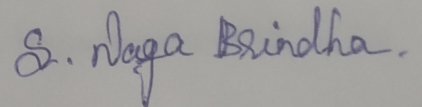
DECLARATION

We hereby declare that the project work entitled **"Exam hall location sms alert system using android"** is a project report of the original work done by ourselves. This project work is submitted to Fatima College (Affiliated to Madurai Kamaraj University) in partial fulfillment of the Degree of Bachelor of Computer Application during the academic year 2019-2022.

I declare that this project documentation or any part thereof has not been submitted for getting any degree or diploma from any university or college.

Place: MADURAI
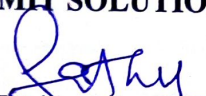
Date: 28-05-2022

Signature

S. Naga Brindha.

(S.NAGA BRINDHA)

MIT Solutions

<u>TO WHOM SO EVER IT MAY CONCERN</u>

This is to certify **Miss . S.Naga Brindha [Reg No : 2019BC21] , Fatima College,** rsuing final year **BCA** is Accepted her Project Title "**Exam hall location sms alert system ing android**"at Mit Solutions Madurai From March 2022.

MIT SOLUTIONS

Project Manager

IOT BASED SMART IRRIGATION MONITORING SYSTEM

PROJECT REPORT

A Project work submitted Madurai Kamaraj University in

partial fulfillment of the requirements for the award of degree of

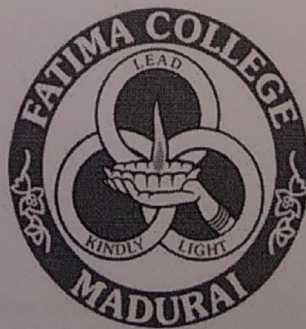B.C.A (BACHELOR OF COMPUTER APPLICATIONS)

2021-2022

Submitted by

M.PRIYANKA(2019BC22)
K.SHALINI(2019BC29)

Under the Guidance of

Mrs .R.RAMYA,MCA.,SLET

DEPARTMENT OF COMPUTER APPLICATIONS

FATIMA COLLEGE (AUTONOMOUS)

MADURAI - 18
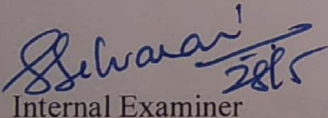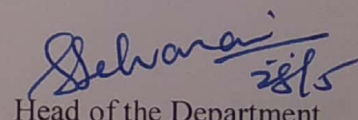
DEPARTMENT OF COMPUTER APPLICATIONS

BONAFIDE CERTIFICATE

This is to certify that the project entitled **"IOT BASED SMART IRRIGATION MONITORING SYSTEM"** is a bonafide record work done by **M.PRIYANKA(2019BC22), K.SHALINI(2019BC29)** in partial fulfillment of the requirement for the award of the Degree of B.C.A. (Bachelor of Computer Applications), Fatima College during the academic year 2019-2022.

Internal Examiner

Head of the Department

Submitted for the Viva-Voice Examination held on ___ 28.5.2022

External Examiner

2

DECLARATION

We hereby declare that the project work entitled **"IOT BASED SMART IRRIGATION MONITORING SYSTEM"** is a project report of the original work done by **M.PRIYANKA (Reg.No.2019BC22), K.SHALINI (Reg.No.2019BC29)** ourselves.

This project work is submitted to Fatima College (Affiliated to Madurai Kamaraj University) in partial fulfillment of the Degree of Bachelor of Computer Application during the academic year 2019 -2022.

We declare that this project documentation or any part thereof has not been submitted for getting any degree or diploma from any university or college.

Place: MADURAI

Date: 28.5.2022   Signature

                                                    M. Priyanka
                                              1. (M.PRIYANKA)

                                                    K.Shalini
                                              2.(K.SHALINI)

3

MIT Solutions

TO WHOM SO EVER IT MAY CONCERN

This is to certify **Miss.M.Priyanka[Reg No :2019BC22],Fatima College,** pursuing final year **BCA** Completed for her Project Title **"SMART IRRIGATION MONITORING" "** in the platform of IOT as nt end with Embedded C++ as back end at Mit Solutions Madurai From March To May 2022.
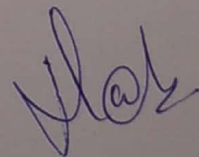
MIT SOLUTIOS

Project Manager

ELECTRICITY DEMAND BASED MANAGEMENT OF HOME

LEGACY APPLIANCES THROUGH IoT TECHNOLOGY IN CEB

PROJECT REPORT

A Project work submitted to Madurai Kamaraj University in partial

fulfilment of the requirements for the award of degree of

BACHELOR OF COMPUTER APPLICATIONS

2021-2022

Submitted by

N. MADHUMITHA(2019BC18)

A. RESHMA(2019BC24)

Under the Guidance of

Mrs. S. SELVARANI, MCA., M.Phil., NET., SET.,

DEPARTMENT OF COMPUTER APPLICATIONS

FATIMA COLLEGE (AUTONOMOUS)

MADURAI-18

1

DEPARTMENT OF COMPUTER APPLICATIONS

BONAFIDE CERTIFICATE

This is to certify that the project entitled **"Electricity Demand Based Management of Home Legacy Appliances Through IoT Technology in CEB"** is a bonafide record work done by **N. MADHUMITHA(2019BC18) &**

A. RESHMA(2019BC24) in partial fulfilment of the requirement for the award of the Degree of B.C.A. (Bachelor of Computer Applications), Fatima College during the academic year 2019-2022.

Internal Examiner

Head of the Department

Submitted for the Viva-Voice Examination held on 28·05·2022

External Examiner

2

DECLARATION

We hereby declare that the project work entitled **"Electricity Demand Based Management of Home Legacy Appliances Through IoT Technology in CEB"** is a project report of the original work done by ourselves. This project work is submitted to Fatima College (Affiliated to Madurai Kamaraj University) in partial fulfilment of the Degree of Bachelor of Computer Applications during the academic year 2019-2022.

I declare that this project documentation or any part thereof has not been submitted for getting any degree or diploma from any university or college.

Place: MADURAI

Date: 28·05· 2022

Signature

(N. MADHUMITHA)

(A. RESHMA)

3

Date: 04/04/2022

TO WHOM SO EVER IT MAY CONCEN

This is a certify **Miss. Rashma A [Reg No: 2019BC24]**, Fatima College, pursuing final year **BCA**iscompleted her Project Title "Eletricity Demand Based Management of Home IoT Technology in CEB "at E-dot Technologies Tirunelveli from April 2022

(S. Babu Sankar Ganesh)

Managing Director,

E-dot Technologies,irunelveli.

ACADEMIC PROJECT TRACKING SYSTEM
PROJECT REPORT

A Project work submitted to Madurai Kamaraj University in partial

fulfilment of the requirements for the award of degree of

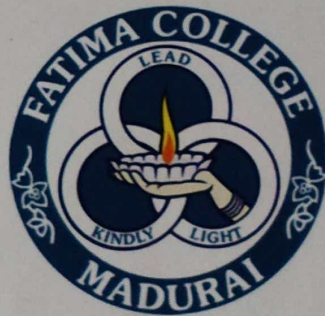## B.C.A (BACHELOR OF COMPUTER APPLICATIONS)
2021-2022

Submitted by

REVATHY K (Reg.No.2019BC25)

Under the Guidance of

Dr. G. PREETHA, M.Sc(IT), M. Phil., Ph. D.

DEPARTMENT OF COMPUTER APPLICATIONS
FATIMA COLLEGE (AUTONOMOUS)
MADURAI-18.

DECLARATION

I hereby declare that the project work entitled "**ACADEMIC POJECT TACKING SYSTEM**"is a project report of the original work done by myself. This project work is submittedto Fatima College (Affiliated to Madurai Kamaraj University) in partial fulfilment of the Degree of Bachelor of Computer Application during the academic year 2019-2022.

I declare that this project documentation or any part thereof has not been submitted for getting any degree or diploma from any university or college.

Place: MADURAI

Date: 28.05.2022

Signature

K·Revathy.

(REVATHY K)

BONAFIDE CERTIFICATE

This is to certify that the project entitled **"ACADEMIC PROJECT TRACKING SYSTEM"** is a bonafide record work done by **REVATHY K (2019BC25)** in partial fulfilment of the requirement for the award of the Degree of Bachelor of Computer Applications, FatimaCollege during the academic year 2019-2022.

G. Preethi 28/05/22

Internal Examiner

Selvarani

Head of the Department

Submitted for the Viva-Voice Examination held on 28.05.2022
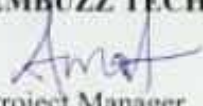
P. Raj 28/5/22

External Examiner

TO WHOM SO EVER IT MAY CONCERN

This is to certify **Miss. Revathy.K [Reg No: 2019BC25], Fatima College,** pursuing final year **BCA** is Completed for her Project Title **"ACADEMIC PROJECT TRACKING SYSTEM "**in the platform of ASP.Net as front end with MS SQL as back end at Embuzz Technologies Madurai From March To May 2022.

EMBUZZ TECHNOLOGIES

Project Manager

Embuzz Technologies
Madurai.

d Office:
I/I, Maruthupandiar Nagar 4th St.,
rashtra Teachers Colony,
ganady Road, Madurai - 625009.

Branch Offices:
201/807, Sakthi Complex 2nd Floor., Opp. to
Camp Road Bus stop, (Towards Tambaram),
Selaiyur, Chennai - 600073.

144, Vaiyapuri Nagar
(2nd Cut), 2nd Cross,
Karur - 639002.

Near RC Church,
Palliyadi, Palliyadi (P.O.),
Kanyakumari dist. - 629169.

M +91 90 42 57 57 00
E ceo.embuzz@gmail.com
W www.embuzzindia.in

IOT BASED HELMET MINING

PROJECT REPORT

A Project work submitted Kamaraj university in partial
Fulfillment of the requirements for the award degree of

(BACHELOR OF COMPUTER APPLICATIONS)

2021-2022

Submitted By

P. DEEPIKA(Reg.no.2019BC04)

M.SANDHIYA(Reg.no.2019BC26)

V.VISHALATCHI(Reg.no.2019BC40)

Under the Guidance of

Mrs. S. SELVARANI, MCA., M.Phil., NET., SET.,

DEPARTMENT OF COMPUTER APPLICATIONS

FATIMA COLLEGE(AUTONOMOUS)

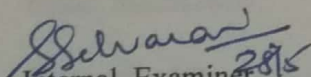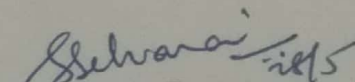# MADURAI-18

BONAFIDE CERTIFICATE

This is certified that the project entitled **"IOT BASED HELMET MINING' '**is a bonafide record work done by **P. DEEPIKA (Reg.No.2019BC04), M. SANDHIYA (Reg.No.2019BC26), V. VISHALATCHI (Reg.No.2019BC40)** in partial fulfillment of the requirement for the award of the Degree of B.C.A, (Bachelor of Computer Application), Fatima college during the academic year 2019-2022.

Internal Examiner

Head of the Department

Submitted for the Viva-Voice Examination held on **28 . 05 . 2022**

External Examiner

DECLARATION

We here by declare that the project work entitled **"HELMET MINING"** is a project report of the original work done by ourselves. This project work is submitted to Fatima College (Afflicted to Madurai Kamaraj University) in partial fulfillment of the Degree of Bachelor of Computer Application during the academic year 2019-2022.

We declare that this project documentation or any part thereof has not been submitted for getting any degree or diploma from any university or college

Place: MADURAI

Date: 28·05·2022

Signature

P. Deepika
1. (P. DEEPIKA)

M. Sandhiya
2. (M. SANDHIYA)

V. Vishalatchi
3. (V. VISHALATCHI)

TOPPERS IT SOLUTION

TO WHOM SO EVER IT MAY CONCERN

This is to certify **Miss SANDHIYA.M** **[Reg. No: 2019BC26], Fatima College,** pursuing final year BCA is completed for her Project Title **"HELMET MINING"** in the platform of IOT as front end with embedded c/cpp as back end at Toppers IT Solutions Madurai From March To May 2022.

TOPPERS IT SOLUTION

Project Manager

TOPPERS IT SOLUTION
MADURAI.

HEALTH RECORDS SECURITY ALERT
FROM ADMIN SIDE

PROJECT REPORT

A Project work Submitted to Madurai Kamaraj University in partial

fulfillment of the requirements for the award of degree of

B.C.A(BACHELOR OF COMPUTER APLLICATIONS)

2021-2022

Submitted by

SANKARA GOMATHI . M

(Reg.No.2019BC27)

Under the Guidance of

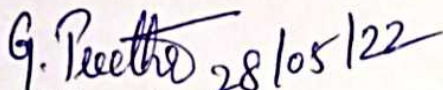**Mrs. S.SELVARANI,MCA.,M.Phil.,NET.,SET.,**
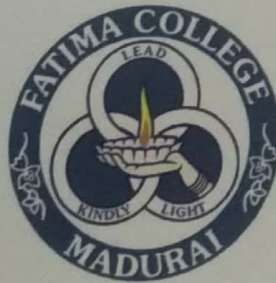
DEPARTMENT OF COMPUTER APPLICATIONS

FATIMA COLLEGE (ATONOMOUS)

MADURAI - 18

DEPARTMENT OF COMPUTER APPLICATIONS
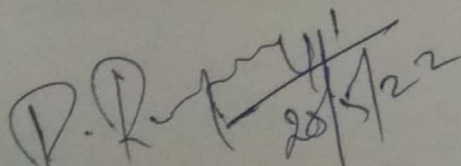
BONAFIDE CERTIFICATE

This is to certify that the project report entitled **"HEALTH RECORDS SECURITY ALERT FROM ADMIN SIDE"** is the bonafide record work done by, **M . SANKARA GOMATHI (2019BC27)** in partial fulfillment of the requirement for the award of the Degree of B.C.A (Bachelor Of Computer Applications), Fatima College during the academic year 2019 -2022 .

Internal Examiner

Head of the Department

Submitted for the viva-voce Examination held on __28.05.2022__

External Examiner

DECLARATION

I hereby declare that the project work entitled **"HEALTH RECORDS SECURITY ALERT FROM ADMIN SIDE"** is a project report of the original work done by myself. This project work is submitted to Fatima College (Affiliated to Madurai Kamaraj University) in partial fulfillment of the degree of Bachelor of Computer Application during the academic year 2019-2022.

I declare that this project documentation or any part thereof has not been submitted for getting any degree or diploma from any university or college.

Place: MADURAI

Date: 28.05.2022
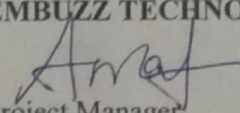
Signature

Sankara Gomathi . M

(SANKARA GOMATHI M)

TO WHOM SO EVER IT MAY CONCERN

This is to certify **Miss. M. Sankara Gomathi [Reg No : 2019BC27]**, Fatima College, pursuing final year **BCA** is Completed for her Project Title **"HEALTH RECORDS SECURITY ALERT FROM ADMIN SIDE "** in the platform of ASP.Net as front end with MS SQL as back end at Embuzz Techechnologies Madurai From March To May 2022.

EMBUZZ TECHNOLOGIES

Project Manager

Branch Offices:

ruthapandia Nagar 4th St.,   201/807, Sakthi Complex 2nd Floor,, Opp. to   144, Vaiyapuri Nagar   Near RC Church,   M +91 90 42 57 57 00
's Teachers Colony,   Camp Road Bus stop, (Towards Tambaram),   (2nd Cut), 2nd Cross,   Palliyadi, Palliyadi (P.O.),   E ceo.embuzz@gmail.com
Road, Madurai - 625009.   Selaiyur, Chennai - 600073.   Karur - 639002.   Kanyakumari dist. - 629169.   W www.embuzzindia.in

CLIENT SERVER BASED LIVE-MEETING

PROJECT REPORT

A Project work Submitted to Madurai Kamaraj University in

partial fulfillment

of the Requirement for the Award of Degree of
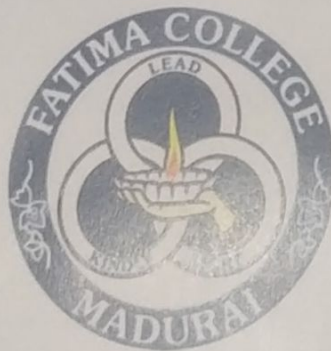
B.C.A(BACHELOR OF COMPUTER APPLICATIONS)

2021-2022

Submitted by

A.SHALINI(Reg.No.2019BC28)

Under the Guidance of
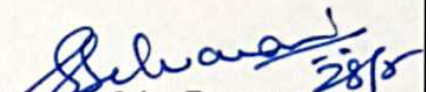
Dr. G. PREETHA, M.Sc(IT), M.Phil., Ph.D.

DEPARTMENT OF COMPUTER APPLICATION

FATIMA COLLEGE(AUTONOMOUS)

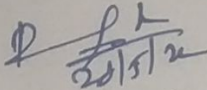## MADURAI-18

DEPARTMENT OF COMPUTER APPLICATIONS
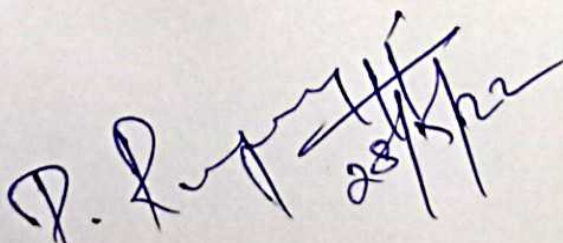
BONAFIDE CERTIFICATE

This is to certify that the Project Report entitled **"CLIENT SERVER BASED LIVE-MEETING** is the bonafide record work done by, **A.SHALINI (2019BC28)** in partial fulfillment for the award of the degree of B.C.A.(Bachelor of computer Application),Fatima College during the academic year 2019-2022.

Internal Examiner 28/05/22

Head of the Department

Submitted for the viva-voce Examination held on 28 · 05 · 2022

External Examiner

DECLARATION

I hereby declare that the project work entitled **"CLIENT SERVER BASED LIVE-MEETING"** is a project report of the original work done by myself. This project work is submitted to Fatima College (Affiliated to Madurai Kamaraj University) in partial fulfillment of the degree of Bachelor of Science during the academic year 2019-2022.

I declare that this dissertation or any part has not been submitted for getting any degree or diploma from any university or college.

Place:MADURAI

Date: 28·05·2022

Signature

(A.SHALINI)

A·Shalini

MIT Solutions

<u>TO WHOM SO EVER IT MAY CONCERN</u>

This is to certify **Miss .A. Shalini [Reg No :2019BC28],Fatima College,** pursuing final year BCA completed for her Project Title **"CLIENT SERVER BASED LIVE-MEETING "** in the platform of Net as front end with MS SQL as back end at Mit Solutions Madurai From March 2022.

MIT SOLUTIONS

Project Manager

IOT BASED SMART IRRIGATION MONITORING SYSTEM PROJECT REPORT

A Project work submitted Madurai Kamaraj University in partial

fulfillment of the requirements for the award of degree of

B.C.A (BACHELOR OF COMPUTER APPLICATIONS)

2021-2022

Submitted by

M.PRIYANKA(2019BC22)
K.SHALINI(2019BC29)

Under the Guidance of

Mrs .R.RAMYA,MCA.,SLET

DEPARTMENT OF COMPUTER APPLICATIONS

FATIMA COLLEGE (AUTONOMOUS)

MADURAI - 18

DEPARTMENT OF COMPUTER APPLICATIONS

BONAFIDE CERTIFICATE

This is to certify that the project entitled **"IOT BASED SMART IRRIGATION MONITORING SYSTEM"** is a bonafide record work done by**M.PRIYANKA(2019BC22), K.SHALINI(2019BC29)** in partial fulfillment of the requirement for the award of the Degree of B.C.A. (Bachelor of Computer Applications), Fatima College during the academic year 2019-2022.

Internal Examiner

Head of the Department

Submitted for the Viva-Voice Examination held on__ 28 . 5 . 2022

External Examiner

ACKNOWLEDGMENT

We thank GOD for his substantial blessings and mercy at all stages of the completion of this project.

We thank our parents for their blessings and also our friends for their sacrifices in supporting us.

We feel honored to place warm salutation to the management of **FATIMA COLLEGE, MADURAI** who gave us the opportunity to have the strong base in computer and technical knowledge.

We express our sincere thanks to **Dr. Sr. G. CELINE SAHAYA MARY, Principal, Fatima College, Madurai** for giving us a comfortable environment to complete this project.

We express our sincere thanks to **Dr. Sr. G. JENITA RANI and Dr. S .L. KUMARI, Vice Principals, Fatima College, Madurai** for their extensive support rendered to carry out this project successfully.

We express our sincere thanks to **Mrs. R.RAMYA, MCA., SLET** for her valuable guidance and encouragement.
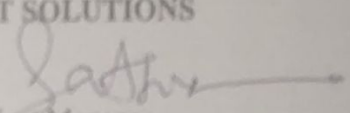
We like to thank all the staff members of BCA Department, Fatima College, for their valuable suggestions at different stages of this project work.

W e a r e grateful to explore my thanks to the people whose constant inspiration, guidance and blessings made this project a successful one.

MIT Solutions

TO WHOM SO EVER IT MAY CONCERN

This is to certify Miss K.Shalini [Reg No :2019BC29],Fatima College, pursuing final year BCA is

ed for her Project Title "SMART IRRIGATION MONITORING" in the platform of IOT as

I with Embedded C++ as back end at Mit Solutions Madurai From March To May 2022.

MIT SOLUTIONS

Project Manager

COLLEGE CERTIFICATION COURSE REGISTRATION SYSTEM

PROJECT REPORT

A Project work submitted to Madurai Kamaraj University in partial

fulfillment of the requirements for the award of degree of

BACHELOR OF COMPUTER APPLICATIONS

2021-2022

Submitted by

S. SINDU MEENA (Reg.No.2019BC31)

Under the Guidance of

Mrs. S. SELVARANI, MCA., M.Phil., NET., SET.,

DEPARTMENT OF COMPUTER APPLICATIONS

FATIMA COLLEGE (AUTONOMOUS)

MADURAI-18

DEPARTMENT OF COMPUTER APPLICATIONS

BONAFIDE CERTIFICATE

This is to certify that the project entitled **"COLLEGE CERTIFICATION COURSE REGISTRATION SYSTEM"** is a bonafide record work done by **S.SINDU MEENA (2019BC31)** in partial fulfillment of the requirement for the award of the Degree of Bachelor of Computer Applications, Fatima College during the academic year 2019-2022.

Internal Examiner

Head of the Department

Submitted for the Viva-Voice Examination held on 28 · 05 · 2022

External Examiner

DECLARATION

I hereby declare that the project work entitled "**COLLEGE CERTIFICATION COURSE REGISTRATION SYSTEM**" is a project report of the original work done by myself. This project work is submitted to Fatima College (Affiliated to Madurai Kamaraj University) in partial fulfillment of the Degree of Bachelor of Computer Application during the academic year 2019-2022.

I declare that this project documentation or any part thereof has not been submitted for getting any degree or diploma from any university or college.

Place: MADURAI

Date: 28. 05. 2022

Signature

S. Sindu Meena

(S.SINDU MEENA)

Neptunix technology

TO WHOM SO EVER IT MAY CONCERN

This is to certify **Miss .S.SINDU MEENA[Reg No : 2019BC31],Fatima College,** pursuing final ear **BCA** is Completed for her Project Title **"COLLEGE CERTIFICATION COURSE EGISTRATION SYSTEM "** in the platform of ASP.Net as front end with MS SQL as back end at eptunix Techechnology Madurai From March To May 2022.

NEPTUNIX TECHNOLOGY

R. Kathawar

Project Manager

8870444723

h Meenakshi illam Krishnapuram colony madurai 14

SPYWAY MAIL COMMUNICATION IN IT INDUSTRY

PROJECT REPORT

A Project work submitted to Madurai Kamaraj University in partial

fulfilment of the requirements for the award of degree of

B.C.A (BACHELOR OF COMPUTER APPLICATIONS)

2021-2022

Submitted by

A. SIVANANDHINI (Reg.No.2019BC32)

Under the Guidance of
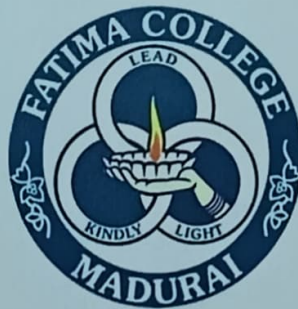
Dr. G. PREETHA, M.Sc (IT), M.Phil., PhD.

DEPARTMENT OF COMPUTER APPLICATIONS

FATIMA COLLEGE (AUTONOMOUS)

MADURAI-18

DEPARTMENT OF COMPUTER APPLICATIONS

BONAFIDE CERTIFICATE

This is to certify that the project entitled "SPYWAY MAIL COMMUNICATION IN IT INDUSTRY" is a bonafide record work done by A. SIVANANDHINI (2019BC32) in partial fulfilment of the requirement for the award of the Degree of B.C.A. (Bachelor of Computer Applications), Fatima College during the academic year 2019-2022.

G. Preetha 28/05/22

Internal Examiner

Head of the Department

Submitted for the Viva-Voice Examination held on 28.05.2022

External Examiner

DECLARATION

I hereby declare that the project work entitled **"SPYWAY MAIL COMMUNICATION IN IT INDUSTRY** "is a project report of the original work done by myself. This project work is submitted to Fatima College (Affiliated to Madurai Kamaraj University) in partial fulfilment of the Degree of Bachelor of Computer Application during the academic year 2019-2022.

I declare that this project documentation or any part thereof has not been submitted for getting any degree or diploma from any university or college.

Place: MADURAI

Date: 28.05.2022

Signature

A. Sivanandhini

(A. SIVANANDHINI)

ACKNOWLEDGMENT

I thank GOD for his substantial blessings and mercy at all stages of the completion of this project.

I thank my parents for their blessings and also my friends for their sacrifices in supporting me.

I feel honoured to place warm salutation to the management of **FATIMA COLLEGE, MADURAI** who gave me the opportunity to have the strong base in computer and technical knowledge.

I express my sincere thanks to **Rev. Dr. Sr. G. CELINE SAHAYA MARY, Principal, Fatima College, Madurai** for giving me a comfortable environment to complete this project.

I express my sincere thanks to **Dr. Sr. G. JENITA RANI** and **Dr. S. L. KUMARI, Vice Principals, Fatima College, Madurai** for their extensive support rendered to carry out this project successfully.

I express my sincere thanks to **Mrs. S. SELVARANI, MCA, M.Phil., NET., SET., (HOD), Department of Computer Applications,** for her valuable guidance and encouragement.

I express my sincere thanks to **Dr. G. PREETHA., M.Sc (IT)., M.Phil., Ph.D., Assistant professor, Department of Computer Applications,** for her valuable guidance and encouragement.

I like to thank all the staff members of Department of Computer Applications, Fatima College, for their valuable suggestions at different stages of this project work.

I am grateful to explore my thanks to the people whose constant inspiration, guidance and blessings made this project a successful one.

<u>TO WHOM SO EVER IT MAY CONCERN</u>

This is to certify **Miss. A. SIVANANDHINI** **[Reg No: 2019BC32]**, **Fatima College,** pursuing final year **BCA** is Completed for her Project Title **"SPYWAY MAIL COMMUNICATION IN IT INDUSTRY** "in the platform of ASP.Net as front end with MS SQL as back end at Mit Solutions Madurai From March 2022.

MIT SOLUTIONS

Project Manager

ELECTRONIC TENDERING USING INTERNET

PROJECT REVIEW

A Project work submitted to Madurai Kamaraj University in partial

fulfilment of the requirements for the award of degree of

B.C.A (BACHELOR OF COMPUTER APPLICATIONS)

2021-2022

Submitted

SUBASRI S (2019BC33)

Under the Guidance of
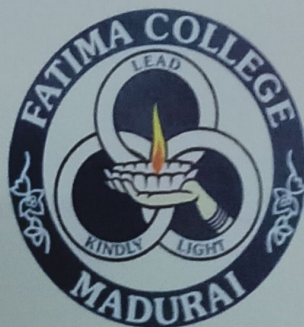
MRS. R. RAMYA., MCA., SLET.,

DEPARTMENT OF COMPUTER APPLICATIONS

FATIMA COLLEGE (AUTONOMOUS)
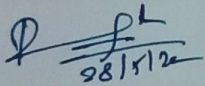
MADURAI-18
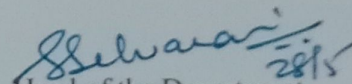
BONAFIDE CERTIFICATE
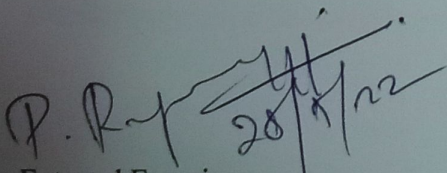
This is to certify that the project entitled **ELECTRONIC TENDERING USING INTERNET** is a bonafide record work done by **SUBASRI S (2019BC33)** in partial fulfilment of the requirement for the award of the Degree of B.C.A. (Bachelor of Computer Applications), Fatima College during the academic year 2019-2022.

Internal Examiner

Head of the Department

Submitted for the Viva-Voice Examination held on 28·05·2022

External Examiner

DECLARATION

I hereby declare that the project work entitled **"ELECTRONIC TENDERING"** **USING INTERNET** is a project report of the original work done by ourselves. This project work is submitted to Fatima College (Affiliated to Madurai Kamaraj University) in partial fulfilment of the Degree of Bachelor of Computer Application during the academic year 2019-2022.

I declare that this project documentation or any part thereof has not been submitted for getting any degree or diploma from any university or college.

Place: MADURAI

Date: 28-05-2022

Signature

S. Subasri

(S.SUBASRI)

ACKNOWLEDGMENT

I thank GOD for his substantial blessings and mercy at all stages of the completion of this project.

I thank my parents for their blessings and also my friends for their sacrifices in supporting us.

I feel honoured to place warm salutation to the management of **FATIMA COLLEGE, MADURAI** who gave us the opportunity to have the strong base in computer and technical knowledge.

I express my sincere thanks to **Dr. Sr. G. CELINE SAHAYA MARY, Principal, Fatima College, Madurai** for giving us a comfortable environment to complete this project.

I express my sincere thanks to **Dr. Sr. G. JENITA RANI and Dr. S. L. KUMARI, Vice Principals, Fatima College, Madurai** for their extensive support rendered to carry out this project successfully.

I express my sincere thanks to **Mrs. S. SELVARANI, Department of Computer Application,** for her valuable guidance and encouragement.

I express my sincere thanks to **Mrs. R. RAMYA, Department of Computer Application,** for her valuable guidance and encouragement.

I like to thank all the staff members of Department of Computer Application, Fatima College, for their valuable suggestions at different stages of this project work.

I am grateful to explore my thanks to the people whose constant inspiration, guidance and blessings made this project a successful one.

TO WHOM SO EVER IT MAY CONCERN

This is to certify **Miss. SUBASRI.S [Reg No: 2019BC33], Fatima College,** pursuing final year **BCA** is Completed for her Project Title **"ELECTRONIC TENDERING USING INTERNET** "in the platform of ASP.Net as front end with MS SQL as back end at Futurik Technologies Madurai From March To May 2022.

FUTURIK TECHNOLOGIES

Project Manager

REMOTE MONITORING SECURITY ALERT

PROJECT REPORT

A Project work submitted to Madurai Kamaraj University in partial

fulfilment of the requirements for the award of degree of

(BACHELOR OF COMPUTER APPLICATIONS)

2021-2022

Submitted by

R. SUJITHA (Reg.No.2019BC34)

N. VIDHYA SHREE (Reg.No.2019BC38)

Under the Guidance of

Mrs. S.SELVARANI, MCA., M.Phil., NET., SET

DEPARTMENT OF COMPUTER APPLICATION

FATIMA COLLEGE (AUTONOMOUS)

MADURAI-18

DEPARTMENT OF COMPUTER APPLICATIONS

BONAFIDE CERTIFICATE

This is to certify that the project entitled **"REMOTE MONITORING SECURITY ALERT"** is a bonafide record work done by **R.SUJITHA (Reg.No.2019BC34) , N.VIDHYA SHREE (Reg.No.2019BC38)** in partial fulfilment of the requirement for the award of the Degree of B.C.A. (Bachelor of Computer Applications), Fatima College during the academic year 2019-2022

Internal Examiner

Head of the Department

Submitted for the Viva-Voice Examination held on 28/05/2022

External Examiner

DECLARATION

We hereby declare that the project work entitled **"REMOTE MONITORING SECURITY ALERT"** is a project report of the original work done by ourselves. This project work is submitted to Fatima College (Affiliated to Madurai Kamaraj University) in partial fulfilment of the Degree of Bachelor of Computer Application during the academic year 2019-2022.

We declare that this project documentation or any part thereof has not been submitted for getting any degree or diploma from any university or college.

Place: MADURAI

Date: 28|05|2022

Signature

N·Vidhya shree.

(N.VIDHYA SHREE)

R. Sujitha

(R. SUJITHA)

ACKNOWLEDGMENT

PROJECT COMPLETION CERTIFICATE

This is to certify that **Miss. R. Sujitha (Reg No 2019BC34)** a student of

Fatima college of Arts & Science, pursing final year **BCA** has successfully

completed a project work between March-2022 to May-2022 Entitled

"REMOTE MONITORING SECURITY ALERT".

For Pantech ProEd Privated Ltd

Project Manager

BUS TRACKING SYSTEM WITH SMS ALERT
PROJECT REPORT

A Project work submitted to Madurai Kamaraj University in partial
fulfilment of the requirements for the award of degree of
B.C.A (BACHELOR OF COMPUTER APPLICATIONS)

2021-2022

Submitted by
SUSMITHA M (2019BC35)

Under the Guidance of

Dr. G. PREETHA, M. Sc(IT), M. Phil. Ph.D.

DEPARTMENT OF COMPUTER APPLICATIONS

FATIMA COLLEGE (AUTONOMOUS)

MADURAI-18

BONAFIDE CERTIFICATE

This is to certify that the project entitled **BUS TRACKING SYSTEM WITH SMS ALERT** is a Bonafide record work done by **SUSMITHA M (2019BC35)** in partial fulfilment of the requirement for the award of the Degree of B.C.A. (Bachelor of Computer Applications), Fatima College during the academic year 2019 - 2022.

G. Preetha 28/05/22

Internal Examiner

Silvarai 28/5

Head of the Department

Submitted for the Viva-Voice Examination held on 28.05.2022

P. R. 20/5/22

External Examiner

DECLARATION
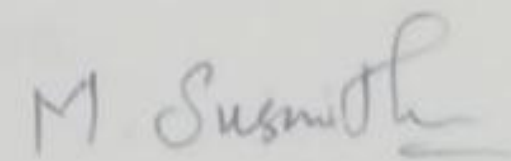
I hereby declare that the project work entitled "**BUS TRACKING WITH SMS ALERT**" is a project report of the original work done by myself This project work is submitted to Fatima College (Affiliated to Madurai Kamaraj University) in partial fulfilment of the Degree of Bachelor of Computer Application during the academic year 2019-2022.

I declare that this project documentation or any part thereof has not been submitted for getting any degree or diploma from any university or college.

Place: MADURAI

Date: 28.05.2022

Signature

M. Susmith

(SUSMITHA M)

ACKNOWLEDGMENT

I thank GOD for his substantial blessings and mercy at all stages of the completion of this project.

I thank my parents for their blessings and also my friends for their sacrifices in supporting us.

I feel honoured to place warm salutation to the management of FATIMA COLLEGE, MADURAI who gave us the opportunity to have the strong base in computer and technical knowledge.

I express my sincere thanks to **Dr. Sr. G. CELINE SAHAYA MARY, Principal, Fatima College, Madurai** for giving us a comfortable environment to complete this project.

I express my sincere thanks to **Dr. J. GENITA RANI and Dr. Sr. L. KUMARI Vice Principals, Fatima College, Madurai** for their extensive support rendered to carry out this project successfully.

I express my sincere thanks to **Mrs. S. SELVARANI, Head, Department of Computer Application,** for her valuable guidance and encouragement.

I express my sincere thanks to **Dr. G. PREETHA, Assistant Professor Department of Computer Application,** for her valuable guidance and encouragement.

I like to thank all the staff members of Department of computer application, Fatima College, for their valuable suggestions at different stages of this project work.

I am grateful to explore my thanks to the people whose constant inspiration, guidance and blessings made this project a successful one.

PROJECT COMPLETION CERTIFICATE

This is to certify that **Miss. M. Susmitha (Reg No 2019BC35)** a student of **Fatima college of Arts & Science**, pursing final year **BCA** has successfully completed a project work between March-2022 to May-2022 Entitled "**BUS TRACKING SYSTEM WITH SMS ALERT**".

For Pantech ProEd Privated Ltd

Project Manager

AUGMENTED REALITY GAMES

PROJECT REPORT

A Project work submitted to Madurai Kamaraj University in partial

Fulfillment of the requirements for the award of degree of

B.C.A (BACHELOR OF COMPUTER APPLICATIONS)

2021-2022

Submitted by

J.SUTHANA (Reg.no.2019BC36)

Under the Guidance Of

Ms. R. RAMYA, M.C.A. SLET

DEPARTMENT OF COMPUTER APPLICATIONS
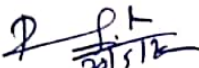
FATIMA COLLEGE (AUTONOMOUS)
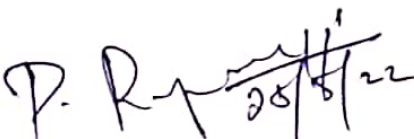
MADURAI-18

DEPARTMENT OF COMPUTER APPLICATIONS

BONAFIDE CERTIFICATE

This is to certify that the project entitled **"AUGMENTED REALITY GAMES"** is a bonafide record work done by **J.SUTHANA (2019BC36)** in partial fulfillment of the requirement for the award of the degree B.C.A. (Bachelor of Computer Application), Fatima College during the academic year 2019-2022.

Internal Examiner

Head of the Department

Submitted for the Viva-Voce Examination held on *28·05·2022*

External Examiner

DECLARATION
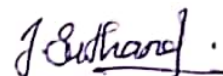
I hereby declare that the project work entitled **"AUGMENTED REALITY GAMES"** is a project report of the original work done by myself. This project work is submitted to Fatima College (Affiliated to Madurai Kamaraj University) in partial fulfillment of the Degree of Bachelor of Computer Application during the academic year 2019-2022.

I declare that this dissertation or any part thereof has not been submitted for getting any degree or diploma from any university or college.

Place: MADURAI

Date: 28 / 05 / 2022

Signature

J. Suthana.

(J.SUTHANA)

ACKNOWLEDGMENT

I thank **GOD** for his substantial blessings and mercy at all stages of the completion of this project.

I thank our parents for their blessings and also our friends for their sacrifices in supporting us.

I feel honored to place warm salutation to the management of **FATIMA COLLEGE, MADURAI** who gave us the opportunity to have the strong base in computer and technical knowledge.

I express our sincere thanks to **Rev. Dr. Sr. G. CELINE SAHAYA MARY, Principal, Fatima College, Madurai** for giving us a comfortable environment to complete this project.

I express our sincere thanks to **Dr. Sr. G. JENITA RANI & Dr. S. L. KUMARI, Vice Principals, Fatima College, Madurai** for their extensive support rendered to carry out this project successfully.

I express our sincere thanks to **Mrs. S. SELVARANI, Head, Department of BCA,** for her valuable guidance and encouragement.

I express our sincere thanks to **Ms. R. RAMYA, M.C.A., SLET.,** for her valuable guidance and encouragement.

I like to thank all the staff members of Department of Computer Applications, Fatima College, for their valuable suggestions at different stages of this project work.

I am grateful to explore our thanks to the people whose constant inspiration, guidance and blessings made this project a successful one.
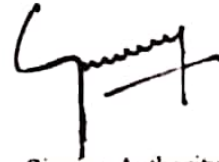
Date : 27/05/2022
Ref : HR/INT/430

To Whom So Ever It may Concern

Sub : Letter of Appreciation

This is to certify that Mrs. **J. SULTHANA (Reg.no2019BC36)** from **FATHIMA COLLEGE,** pursuning final year **BCA** is completed for her project title "AGUMENTED REALITY GAMES " in the platform of python computer vision as Front end Tkinter as Back end python at V7 Lancers technopark private limited Maduari from march to may 2022.

For V7lancers Technopark Pvt. Ltd.

Signing Authority

V7 LANCERS TECHNOPARK PVT LTD.,
22/56. Teppakulam - Anuppanadi Main Road
Madurai - 625009.
www.v7lancers.com

SMART ATTENDANCE ASSISTANT

(AI BASED SMART ATTENDANCE ASSISTANT USING FACE RECOGNITION)

PROJECT REPORT

A Project work submitted to Madurai Kamaraj University in partial

Fulfillment of the requirements for the award of degree of
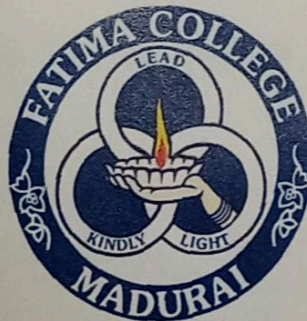
BACHELOR OF COMPUTER APPLICATIONS

2021-2022

Submitted by

M.SWATHI (Reg.No.2019BC37)

Under the Guidance of

Mrs. S. SELVARANI, MCA., M.Phil., NET., SET.,

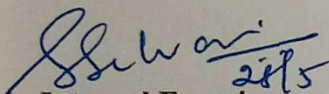**DEPARTMENT OF COMPUTER APPLICATIONS**
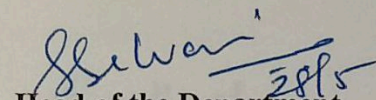
FATIMA COLLEGE (AUTONOMOUS)
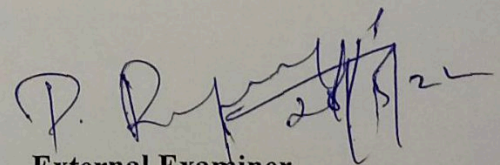
MADURAI-18

DEPARTMENT OF COMPUTER APPLICATIONS

BONAFIDE CERTIFICATE

This is to certify that the project entitled **"SMART ATTENDANCE ASSISTANT"** is a bonafide record work done by **M.SWATHI (2019BC37)** in partial fulfilment of the requirement for the award of the Degree of Bachelor of Computer Applications, Fatima College during the academic year 2019-2022.

Internal Examiner

Head of the Department

Submitted for the Viva-Voice Examination held on 28.05.2022
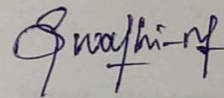
External Examiner

2

DECLARATION

I hereby declare that the project work entitled **"SMART ATTENDANCE ASSISTANT"** is a project report of the original work done by myself. This project work is submitted to Fatima College (Affiliated to Madurai Kamaraj University) in partial fulfilment of the Degree of Bachelor of Computer Application during the academic year 2019-2022.

I declare that this project documentation or any part thereof has not been submitted for getting any degree or diploma from any university or college.

Place: MADURAI

Date: 28/05/2022
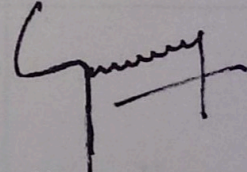
Signature

(M. SWATHI)

V7LANCERS TECHNOPARK PVT LT

☎ +91-7339129812
GSTIN : 33AAGCV7009P1ZW
CIN: U72900TN2018PTC12610'
✉ info@v7lancers.c

Date : 27/05/2022
Ref : HR/INT/429

<u>**To Whom So Ever It may Concern**</u>

Sub : Letter of Appreciation

This is to certify that Mrs. **M. SWATHI (Reg.no 2019BC37)** from **FATHIMA COLLEGE**, pursuning
inal year **BCA** is completed for her project title **"SMART ATTENDANCE ASSISTANT "** in the platform of
ython computer vision at V7 Lancers technopark private limited Maduari from march to may 2022.

For V7lancers Technopark Pvt.Ltd.

Signing Authority

V7 LANCERS TECHNOPARK PVT LTD.,
22/56, Teppakulam - Anuppanadi Main Road
Madurai - 625009.
www.v7lancers.com

⚲ 53/28, 1ˢᵗ floor, NMR College Road, Theppakulam- Anuppanadi main road, Madurai, Tamilnadu, India– 625009.

https://v7lancers.com |https://training.v7lancers.com

REMOTE MONITORING SECURITY ALERT

PROJECT REPORT

A Project work submitted to Madurai Kamaraj University in partial

fulfilment of the requirements for the award of degree of

(BACHELOR OF COMPUTER APPLICATIONS)

2021-2022

Submitted by

R. SUJITHA (Reg.No.2019BC34)

N. VIDHYA SHREE (Reg.No.2019BC38)

Under the Guidance of

Mrs. S.SELVARANI, MCA., M.Phil., NET., SET

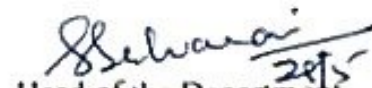**DEPARTMENT OF COMPUTER APPLICATION**

FATIMA COLLEGE (AUTONOMOUS)

MADURAI-18

DEPARTMENT OF COMPUTER APPLICATIONS

BONAFIDE CERTIFICATE

This is to certify that the project entitled **"REMOTE MONITORING SECURITY ALERT"** is a bonafide record work done by **R.SUJITHA (Reg.No.2019BC34) , N.VIDHYA SHREE (Reg.No.2019BC38)** in partial fulfilment of the requirement for the award of the Degree of B.C.A. (Bachelor of Computer Applications), Fatima College during the academic year 2019-2022

Internal Examiner

Head of the Department

Submitted for the Viva-Voice Examination held on **28/05/2022**

External Examiner

DECLARATION

We hereby declare that the project work entitled **"REMOTE MONITORING SECURITY ALERT"** is a project report of the original work done by ourselves. This project work is submitted to Fatima College (Affiliated to Madurai Kamaraj University) in partial fulfilment of the Degree of Bachelor of Computer Application during the academic year 2019-2022.

We declare that this project documentation or any part thereof has not been submitted for getting any degree or diploma from any university or college.

Place: MADURAI

Date: 28|05|2022

Signature

N·Vidhya shree.

(N.VIDHYA SHREE)

R. Sujitha

(R. SUJITHA)

ACKNOWLEDGMENT

We thank GOD for his substantial blessings and mercy at all stages of the completion of this project.

We thank our parents for their blessings and also our friends for their sacrifices in supporting us.

We feel honoured to place warm salutation to the management of **FATIMA COLLEGE, MADURAI** who gave us the opportunity to have the strong base in computer and technical knowledge.

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We express our sincere thanks to **Mrs. S. SELVARANI, Head, Department of COMPUTER APPLICATION** for her valuable guidance and encouragement.

We like to thank all the staff members of Department of Computer application, Fatima College, for their valuable suggestions at different stages of this project work.

We are grateful to explore our thanks to the people whose constant inspiration, guidance and blessings made this project a successful one.

PROJECT COMPLETION CERTIFICATE

This is to certify that **Miss. N. Vidhya shree (Reg No 2019BC38)** a student of **Fatima college of Arts & Science**, pursing final year **BCA** has successfully completed a project work between March-2022 to May-2022 Entitled **"REMOTE MONITORING SECURITY ALERT"**.

For Pantech ProEd Privated Ltd

Project Manager

IOT BASED HELMET MINING

PROJECT REPORT

A Project work submitted Kamaraj university in partial
Fulfillment of the requirements for the award degree of

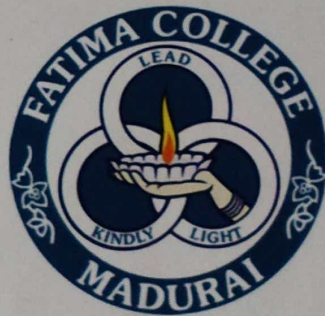## (BACHELOR OF COMPUTER APPLICATIONS)

2021-2022

Submitted By

P. DEEPIKA(Reg.no.2019BC04)

M.SANDHIYA(Reg.no.2019BC26)

V.VISHALATCHI(Reg.no.2019BC40)

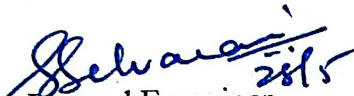Under the Guidance of

Mrs. S. SELVARANI, MCA., M.Phil., NET., SET.,
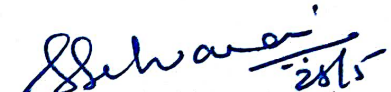

DEPARTMENT OF COMPUTER APPLICATIONS

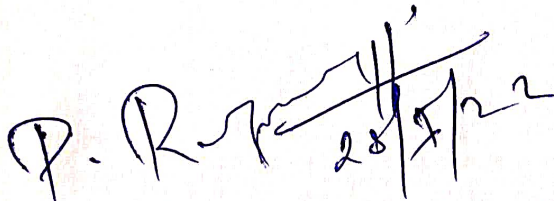## FATIMA COLLEGE(AUTONOMOUS)

MADURAI-18

BONAFIDE CERTIFICATE

This is certified that the project entitled **"IOT BASED HELMET MINING'** 'is a bonafide record work done by **P. DEEPIKA (Reg.No.2019BC04), M. SANDHIYA (Reg.No.2019BC26), V. VISHALATCHI (Reg.No.2019BC40)** in partial fulfillment of the requirement for the award of the Degree of B.C.A, (Bachelor of Computer Application), Fatima college during the academic year 2019-2022.

Internal Examiner

Head of the Department

Submitted for the Viva-Voice Examination held on _28 . 05 . 2022_

External Examiner

DECLARATION

We here by declare that the project work entitled **"HELMET MINING"** is a project report of the original work done by ourselves. This project work is submitted to Fatima College (Afflicted to Madurai Kamaraj University) in partial fulfillment of the Degree of Bachelor of Computer Application during the academic year 2019-2022.

We declare that this project documentation or any part thereof has not been submitted for getting any degree or diploma from any university or college

Place: MADURAI

Date: 28 - 05 - 2022

Signature

P. Deepika
1. (P. DEEPIKA)

M. Sandhiya
2. (M. SANDHIYA)

V. Vishalatchi
3. (V. VISHALATCHI)

TOPPERS IT SOLUTION

TO WHOM SO EVER IT MAY CONCERN

This is to certify **Miss .V. VISHALATCHI [Reg. No: 2019BC40]**, Fatima College, pursuing final year BCA is completed for her Project Title **"HELMET MINING"** in the platform of IOT as front end with embedded c/cpp as back end at Toppers IT Solutions Madurai From March To May 2022.

TOPPERS IT SOLUTION

Project Manager

TOPPERS IT SOLUTION
MADURAI.

IoT BASED SMART AGRICULTURE MONITORING SYSTEM

PROJECT REPORT

A Project work submitted to Madurai Kamaraj University in partial

fulfilment of the requirements for the award of degree of
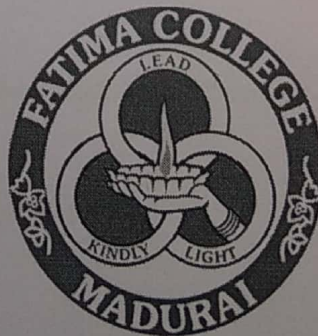
BACHELOR OF COMPUTER APPLICATIONS

2021-2022

Submitted by

V.R.HEMALATHA (Reg.No.2019BC13)

V.THANUSHA (Reg.No 2019BC42)

Under the Guidance of

Dr.G.PREETHA , M.Sc(IT) ., M.Phil ., Ph.D.

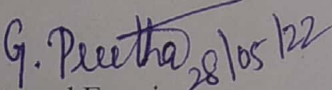## DEPARTMENT OF COMPUTER APPLICATIONS

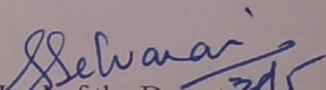## FATIMA COLLEGE (AUTONOMOUS)

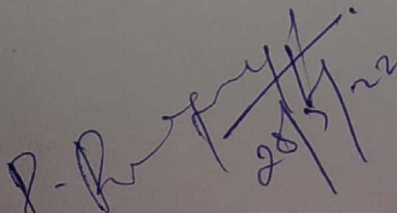## MADURAI-18

DEPARTMENT OF COMPUTER APPLICATIONS

BONAFIDE CERTIFICATE

This is to certify that the project entitled **"IoT BASED SMART AGRICULTURE MONITORING SYSTEM"** is a bonafide record work done by **V.R.HEMALATHA (2019BC13) AND V.THANUSHA (2019BC42)** in partial fulfillment of the requirement for the award of the Degree of B.C.A. (Bachelor of Computer Applications), Fatima College during the academic year 2019-2022.

G. Preetha 28/05/22

Internal Examiner

Selvarani 3d5

Head of the Department

Submitted for the Viva-Voice Examination held on 28.05.2022

External Examiner

DECLARATION

We hereby declare that the project work entitled "IoT BASED SMART AGRICULTURE MONITORING SYSTEM" is a project report of the original work done by ourselves. This project work is submitted to Fatima College (Affiliated to Madurai Kamaraj University) in partial fulfillment of the Degree of Bachelor of Computer Applications during the academic year 2019 -2022.

We declare that this project documentation or any part thereof has not been submitted for getting any degree or diploma from any university or college.

Place: MADURAI

Date: 28.06.2022   Signature

V.R. Hemalatha

1.   (V.R.HEMALATHA)

2.   (V.THANUSHA)

TO WHOM SO EVER IT MAY CONCERN

This is to certify **Miss V.Thanusha [Reg No :2019BC42],Fatima College,** pursuing final year **BCA** is Completed for her Project Title **"SMART AGRICULTURE MONITORING SYSTEM"** in the platform of IOT as front end with Embedded C++ as back end at Embuzz Techechnologies Madurai From March To May 2022.

EMBUZZ TECHNOLOGIES

Project Manager

Embuzz Technologies
Madurai.

Embuzz Technologies Private Limited

Head Office:
279/1, Maruthupandiar Nagar 4th St.,
Sourashtra Teachers Colony,
Anupanady Road, Madurai - 625009.

Branch Offices:
201/807, Sakthi Complex 2nd Floor., Opp. to
Camp Road Bus stop, (Towards Tambaram),
Selaiyur, Chennai - 600073.

144, Vaiyapuri Nagar
(2nd Cut), 2nd Cross,
Karur - 639002.

Near RC Church,
Palliyadi, Palliyadi (P.O.),
Kanyakumari dist. - 629169.

M +91 90 42 57 57 00
E ceo.embuzz@gmail.com
W www.embuzzindia.in

ON ROAD VEHICLE BREAKDOWN ASSISTANCE

PROJECT REPORT

A Project work submitted to Madurai Kamaraj University in partial

fulfilment of the requirements for the award of degree of

BACHELOR OF COMPUTER APPLICATION

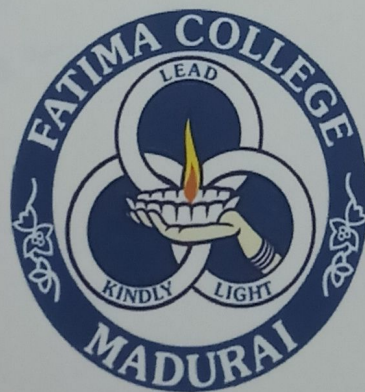### 2021-2022

Submitted by

H SOWMIYA (Reg.No.2019BC43)

Under the Guidance of

Mrs.R.RAMYA, MCA., SLET,

DEPARTMENT OF COMPUTER APPLICATIONS

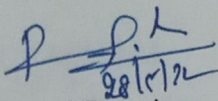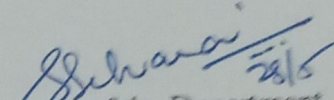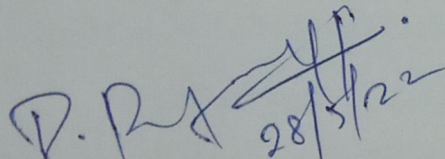# FATIMA COLLEGE (AUTONOMOUS)

MADURAI-18

BONAFIDE CERTIFICATE

This is to certify that the project entitled **"ON ROAD VEHICLE BREAKDOWN ASSISTANCE"** is a bonafide record work done by **H SOWMIYA(2019BC43)** in partial fulfilment of the requirement for the award of the Degree of Bachelor of Computer Applications, Fatima College during the academic year 2019-2022.

Internal Examiner

Head of the Department

Submitted for the Viva-Voice Examination held on   28/05/2022.

External Examiner

DECLARATION

I hereby declare that the project work entitled "**ON ROAD VEHICLE BREAKDOWN ASSISTANCE**"is a project report of the original work done by myself. This project work is submitted to Fatima College (Affiliated to Madurai Kamaraj University) in partial fulfilment of the Degree of Bachelor of Computer Application during the academic year 2019-2022.

     I declare that this project documentation or any part thereof has not been submitted for getting any degree or diploma from any university or college.

Place: MADURAI

Date: 28|05|2022

Signature

(H SOWMIYA)

H.Sowmiya

Embuzz
TECHNOLOGIES
THE VOICE OF EMBEDDED

TO WHOM SO EVER IT MAY CONCERN

This is to certify **Miss. SOWMIYA.H [Reg No: 2019BC43], Fatima College,** pursuing final year BCA is Completed for her Project Title **"ONROAD VEHICLE BREAKDOWN ASSISTANCE "** in the platform of ASP.Net as front end with MS SQL as back end at Embuzz Technologies Madurai From March To May 2022.

EMBUZZ TECHNOLOGIES

Project Manager

Embuzz Technologies
Madurai.

Office:
1, Maruthupandiar Nagar 4th St.,
ashtra Teachers Colony,
nnady Road, Madurai - 625009.

Branch Offices:
201/807, Sakthi Complex 2nd Floor,, Opp. to
Camp Road Bus stop, (Towards Tambaram),
Selaiyur, Chennai - 600073.

144, Vaiyapuri Nagar
(2nd Cut), 2nd Cross,
Karur - 639002.

Near RC Church,
Palliyadi, Palliyadi (P.O.),
Kanyakumari dist. - 629169.

M +91 90 42 57 57 00
E ceo.embuzz@gmail.com
W www.embuzzindia.in

HEART RATE DETECTION AND HEART RATE MONITOR

PROJECT REPORT

A Project work submitted to Madurai Kamaraj University in partial

fulfilment of the requirements for the award of degree of

B.C.A(BACHELOR OF COMPUTER APPLICATIONS)

2021-2022

Submitted by

M. HARISHMA (Reg.No.2019BC09)
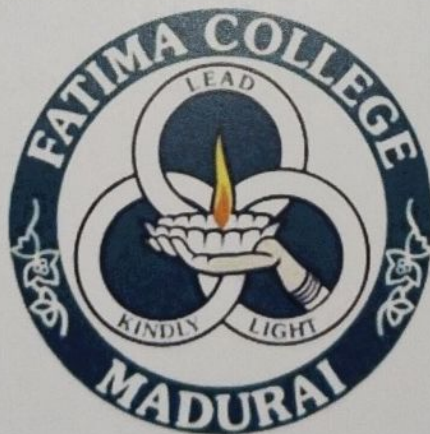
G. KANIMOZHI (Reg.No.2019BC15)

D. KAVYA (Reg.No.2019BC16)

Under the Guidance of

Mrs. R. RAMYA, MCA., SLET.

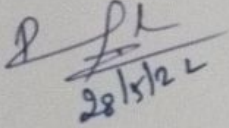Mrs. S. SELVARANI, MCA, M.Phil., NET., SET.

DEPARTMENT OF COMPUTER APPLICATIONS

FATIMA COLLEGE (AUTONOMOUS)

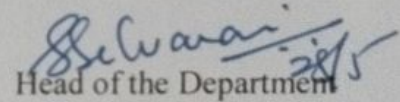## MADURAI-18

DEPARTMENT OF COMPUTER APPLICATIONS

BONAFIDE CERTIFICATE

This is to certify that the project entitled **"HEART RATE DETECTION AND HEART RATE MONITOR"** is a bonafide record work done by **M. HARISHMA (Reg.No.2019BC09), G. KANIMOZHI (Reg.No.2019BC15) AND D. KAVYA (Reg.No.2019BC16)** in partial fulfilment of the requirement for the award of the Degree of B.C.A. (Bachelor of Computer Applications), Fatima College during the academic year 2019-2022.

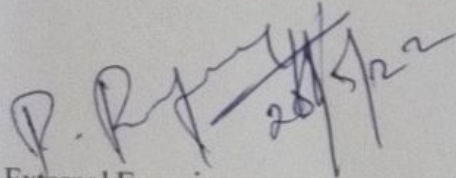Internal Examiner

Head of the Department

Submitted for the Viva-Voice Examination held on __28.05.2022__

External Examiner

DECLARATION

We hereby declare that the project work entitled "**HEART RATE DETECTION AND HEART RATE MONITOR**" is a project report of the original work done by ourselves. This project work is submitted to Fatima College (Affiliated to Madurai Kamaraj University) in partial fulfilment of the Degree of Bachelor of Computer Application during the academic year 2019-2022.

We declare that this project documentation or any part there of has not been submitted for getting any degree or diploma from any university or college.

Place: MADURAI

Date: 28.05.2022.

Signature

M. Harishma

1. (M. HARISHMA)

G. Kanimozhi

2. (G.KANIMOZHI)

D. kavya.

3. (D. KAVYA)

TOPPERS IT SOLUTION

TO WHOM SO EVER IT MAY CONCERN

This is to certify **Miss .M. HARISHMA** [Reg. No: 2019BC09], **Fatima College,** pursuing final year **BCA** is completed for her Project Title **"HEART RATE DETECTION AND HEART RATE MONITOR"** in the platform of Thingspeak cloud as front end with embedded c/cpp as back end at Toppers IT Solutions Madurai From March To May 2022.

TOPPERS IT SOLUTION
MADURAI

TOPPERS IT SOLUTION

Project Manager

9994134616