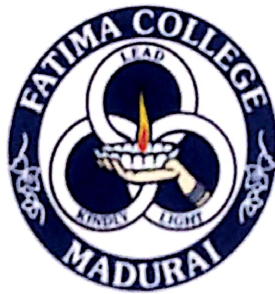


CUMULATIVE RECORD MAINTENANCE SYSTEM

A Project work submitted to Fatima College (Autonomous) affiliated to Madurai Kamaraj University in partial fulfillment of the requirements for the Degree of Bachelor of Science in Computer Science

Submitted by

A. CHRISMA SIRUMANI (2021B13)



DEPARTMENT OF COMPUTER SCIENCE

FATIMA COLLEGE (Autonomous)

Re-Accredited with 'A++' Grade by NAAC (IV Cycle)

Mary Land, Madurai-18

March- 2024

FATIMA COLLEGE (AUTONOMOUS), MADURAI-18

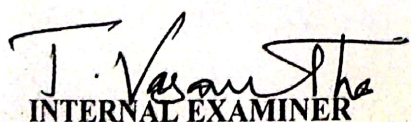
DEPARTMENT OF COMPUTER SCIENCE

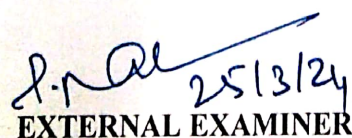


BONAFIDE CERTIFICATE

This is to certify that this project entitled “**CUMULATIVE RECORD MAINTENANCE SYSTEM**” is a Bonafide record of the project work done by **A. CHRISMA SIRUMANI (2021B13)** in partial fulfillment of the requirement for the award of the Degree of **BACHELOR OF SCIENCE in COMPUTER SCIENCE**.

Submitted for the Viva-Voce Examination held on 25.03.2024


INTERNAL EXAMINER

 25/3/24
EXTERNAL EXAMINER

DECLARATION

I hereby declare that the project entitled “**CUMULATIVE RECORD MAINTENANCE SYSTEM**” is a project report of the original work done by me. This project work is submitted to Fatima College (Autonomous, Affiliated to Madurai Kamaraj University) in partial fulfillment of the Degree of Bachelor of Science in Computer Science during the academic year 2023-2024.

I declare that this project work or any part thereof has not been submitted for getting any Degree or Diploma from any University or College.

Place: Madurai

Date: 25.03.2024

A. Chrisma Sirumani
Signature

A. Chrisma Sirumani (2021B13)



CHRIST THE KING MAT. HR.SEC. SCHOOL

INCOME TAX COLONY, VILANGUDI, MADURAI-18

Phone: 0452 - 2668909

PAL / CORRESPONDENT

Date : 20- 03- 2024

Certificate

This is to certify that **A. ChrismaSirumani(2021B13)** pursuing **B.Sc. Computer Science** degree in **Fatima College, Madurai** has successfully completed her project on the title '**Cumulative Record Maintenance System**' for our institution.


Principal Signature

Principal
Christ The King Matric. Hr. Sec. School
Income Tax Colony,
Vilangudi, Madurai-625 018.

School Seal



CHAPTER – 1

ABSTRACT

In contemporary educational settings, managing student records across various academic levels poses significant challenges in terms of efficiency, accuracy, and data security. Traditional paper-based record-keeping systems are prone to errors, redundancy, and the risk of loss or damage. Moreover, as educational institutions strive to meet the evolving demands of regulatory compliance and data protection, there arises a pressing need for robust digital solutions that can streamline record management processes while ensuring data integrity and security.

The Cumulative Record Maintenance System represents a comprehensive software solution designed to address these challenges effectively. Developed using Java programming language within the NetBeans Integrated Development Environment (IDE), the system offers a user-friendly platform for the school to manage student records seamlessly. Through a relational database structure, with dedicated tables for each class and a repository for previous year records, the system enables centralized storage and efficient retrieval of student data.

The Cumulative Record Maintenance System includes a secure login interface, facilitating authorized access to the system, and ensuring data confidentiality. Upon login, users can select between viewing records for the current academic year or accessing data from previous years, enhancing longitudinal data analysis and reporting capabilities. The system provides functionalities for adding, editing, and deleting student records, encompassing details related to academic performance, co-scholastic activities, and year-end grades.

One of the distinguishing features of the system is its ability to automate the transition to a new academic year seamlessly. At the end of each academic year, the system facilitates the transfer of relevant student data while preserving data integrity, thereby reducing manual intervention and ensuring continuity in record management processes.

Through efficient data management functionalities, the Cumulative Record Maintenance System empowers educational institutions to streamline record-keeping processes