

College Data Management System

Database Management System
MSCS_542L_256_23S

Super Six



Marist College
School of Computer Science and Mathematics

Submitted To:
Dr. Reza Sadeghi

02-07-2023

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Project Report of College data management system

Team Name

Super Six

Team members

1. Pradeep Reddy Baireddy. pradeepreddy.baireddy1@marist.edu (Team Head)
2. Prajakta kshirsagar prajaktakshirsagar2022@gmail.com (Team member)
3. Deepthi Niharika Gadepalli DeepthiNiharika.Gadepalli1@marist.edu (Team member)
4. Bharadwaja Thota bharadwaja.thota1@marist.edu (Team member)
5. Pradeep Reddy Macha pradeepreddy.macha1@marist.edu (Team member)
6. Chakradhar Reddy Marepally ChakradharReddy.Marepally1@marist.edu (Team member)

Description of Team Members

1. Pradeep Reddy Baireddy

I attained my bachelor's degree in computer science from Osmania University in 2019. I worked as a front-end developer for Ecommerce sites for two years. I have a brief knowledge of DBMS; I would like to enhance it and learn how to apply it in different fields. We choose this project as a way to learn the creation and application of DBMS by covering most of the scenarios in development and honing our skills to work as a team.

2. Prajakta kshirsagar

I am a graduate from computer science with 3 years of experience into banking and finance. With the zeal to learn new technologies and skills I am doing my masters at Marist in computer science. The objective of this project is to showcase talent of each of the members of our group and use the skills and knowledge to its full potential.

3. Deepthi Niharika Gadepalli

I had done my Bachelors in electronics and communication engineering this year. During my undergrad, I got opportunity to study few CS subjects as well along with my core subjects like python, C, C++. To expand my learnings in this field, I'm pursuing MSCS at Marist. Through this project, I'm sure by collaboration and research, I'm going to learn a lot more about DBMS which will help me a lot in my professional life ahead

4. Bharadwaja Thota

I completed my undergraduate education in the field of information technology. I selected to collaborate with this team since I am familiar with my teammates through our talks regarding the other course projects and labs. I also feel more at ease and have more flexibility to share my opinions and contribute my ideas to this team's project. We have chosen Baireddy Pradeep as a teammate owing to his extensive career expertise and the richness of the content. I believe we can collaborate well under his direction.

5. Pradeep Reddy Macha

I am a Telecommunications Engineer with a robust Electronics and Communication Engineering and Information Systems background, with a Bachelors and Masters degrees in the respective fields. With three years of experience at Gigacomm, I have honed my skills and am dedicated to providing high-quality services to my clients by constantly striving for innovative solutions and valuing teamwork. I like to work on this team project, which will allow me to share and acquire knowledge since everyone in the team has different skills and perspectives. I am now seeking a change in my career to further my interest in technology by learning database management systems and programming skills.

6. Chakradhar Reddy Marepally

I completed my graduation in electronics and communication engineering from JNTUH in 2021. Eagerly waiting to do work in all fields. I am interested to learn new things.

Introduction

Every institution needs a system to manage their data and information efficiently. To manage it digitally it needs an elaborate, underlying database management system. The institution is required to maintain their records not only for the benefit of students and college, but also for the sake of institution's alumina to access their records. Accessing those records with minimum complexity is a major requirement for most of the institutions. College data management system is designed to achieve this task with high precision.

Every time when an academic year begins, new records should be created along with the adjusting of old records accordingly. This job needs a particular set of instructions which needed to be implemented precisely to avoid complications.

Maintaining a college database is a complex job, as it is updated constantly with new students, their grades and other details. And also, it is needed to maintain discrete fields like classes, faculty and, sub-data of each field. Along with these functions, Institutions are also required to monitor and maintain record of its assets and machines. This application helps colleges and universities to store, organize, and access student, faculty, and administrative data in a uniform and reliable way. This system is designed to meet the specific needs of each institution and also it can maintain resources for student and faculty management, course scheduling, financial aid and billing

Project Objectives

The following should be supported by the system:

- Application should be able to prompt the administrator, faculty, staff and student for the login details and allow them to change credentials with proper authentication.
- Application should allow administrator or faculty to add the student records individually or collectively.
- Application should provide the capability for the students or faculty to modify their contact information and profile changes with proper authentication.
- Student should be able to choose their classes from the curriculum.
- College authority should not have access to the student records but be able to add or change their grading.
- System should be maintaining records of the assets of college and administrator should be the one to give permission for staff to change it.
- Application should have the capability accessing three separate login databases like student login, Faculty login and college administration login. So that they can access their respective data and run the college data in organized manner.

Related work

Similar works have been found on the internet. For example, EduSec College Management System.

Merits

- The college data managements system helps students to access their data, course resources and grades remotely. And helps faculty to provide resources and grades for students. And college administrations to post important and relevant information to students and all other staff members of that college.
- This application will allow the institution to keep track of students' progress and to manage and modify the attendance.
- This application will allow the students take quizzes remotely.
- This application allows the students to apply and enrol the course.

References

[1] Referred from "<https://sourceforge.net/projects/edusec/>"