BASIC INFORMATION

Project Name : COLLEGE MANAGEMENT SYSTEM [CMS]
Intern Name: Ms. NEEKITA PATIL
Company Name: INNO FORTUNE IT PVT. LTD
Mentor Name: Ms. NIKITA MAM
Start Date: 21 feb 2026

Abstract

The **College Management System (CMS)** is a web-based application developed to automate and manage academic and administrative activities of a college.

It provides role-based access to **Admin, Faculty, and Students** for managing student records, attendance, courses, and results efficiently.

The system reduces manual work, improves accuracy, and ensures secure data handling.

Introduction

Traditional college management involves manual record keeping, which is time-consuming and error-prone.

The College Management System digitizes these processes, allowing faster access to data, improved communication, and better resource management using modern web technologies.

Objectives

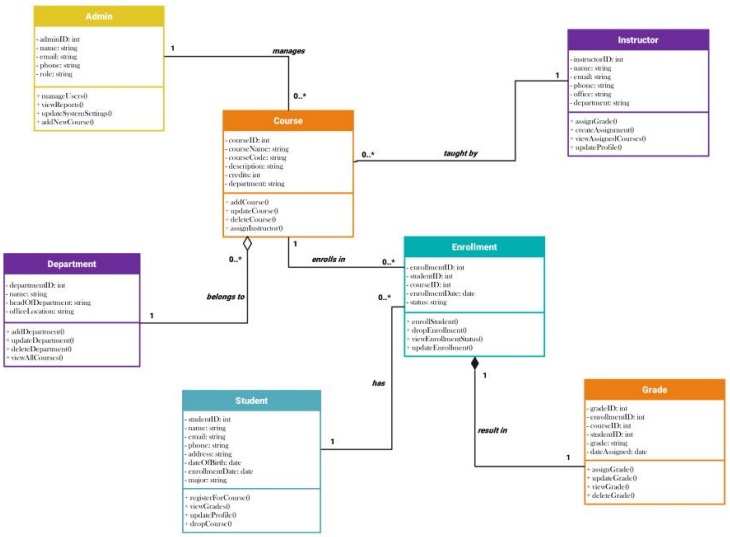
- To automate college administrative tasks
- To reduce paperwork and manual errors
- To provide centralized data storage
- To ensure secure and role-based access
- To improve efficiency and accuracy

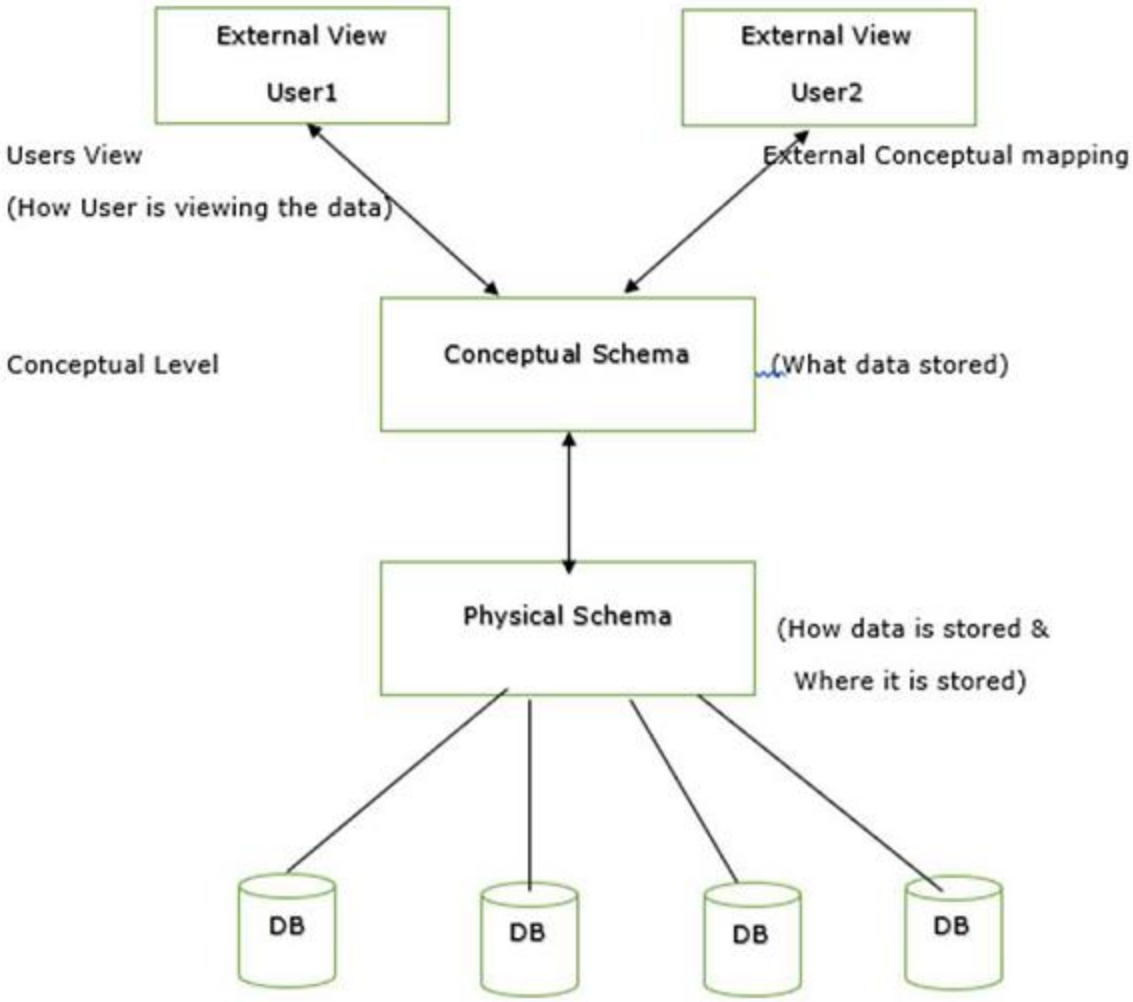
Software Requirements

- OS: Windows / Linux
- Frontend: HTML, CSS, JavaScript
- Backend: Java (JSP, Servlets)
- Database: MySQL
- Server: Apache Tomcat
- IDE: Eclipse / NetBeans

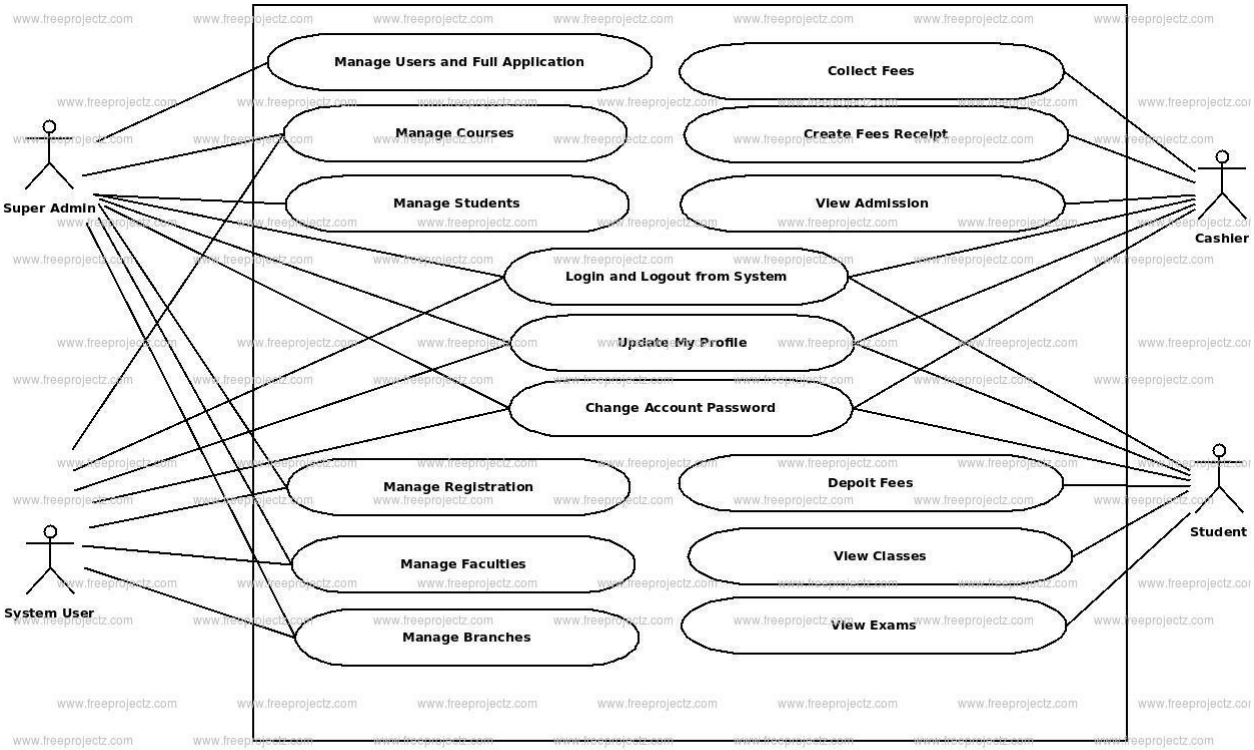
System Architecture Diagram

- Shows interaction between user interface, business logic, and database.

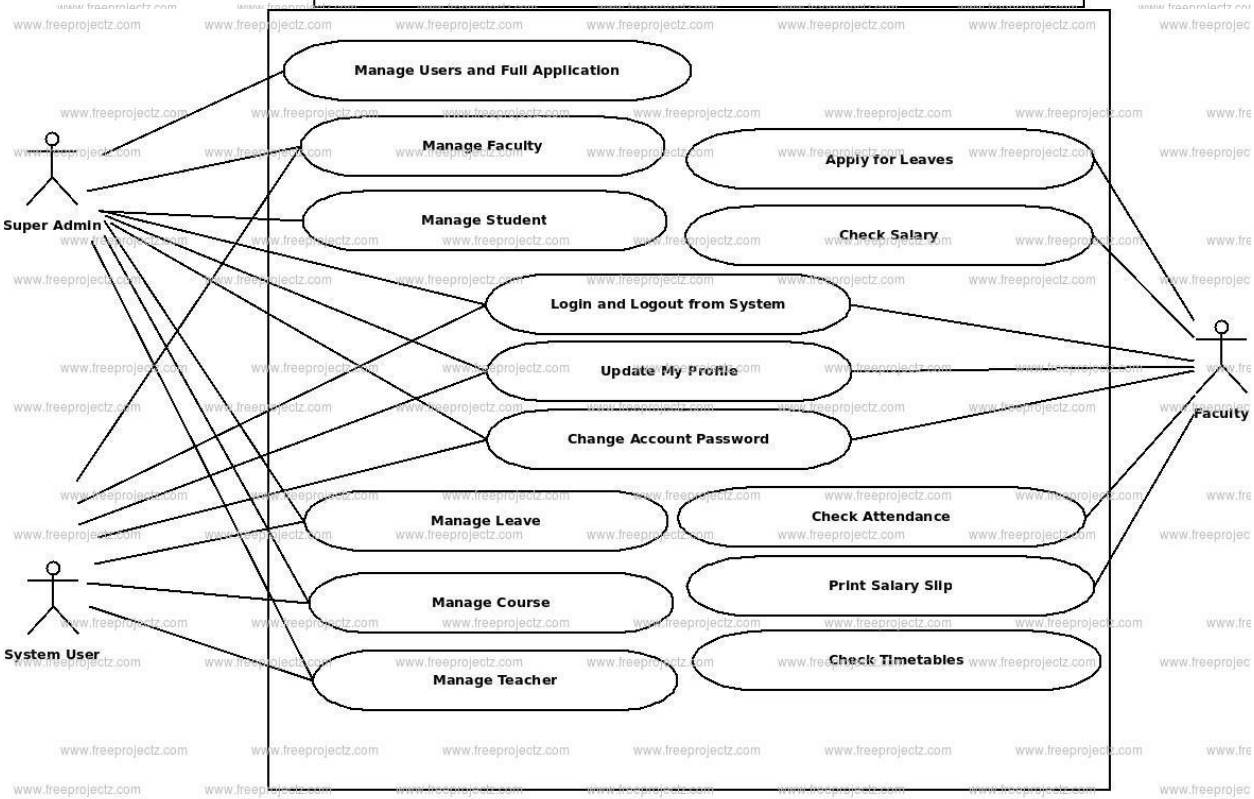




Use Case Diagram
Represents actions performed by Admin, Faculty, and Students.



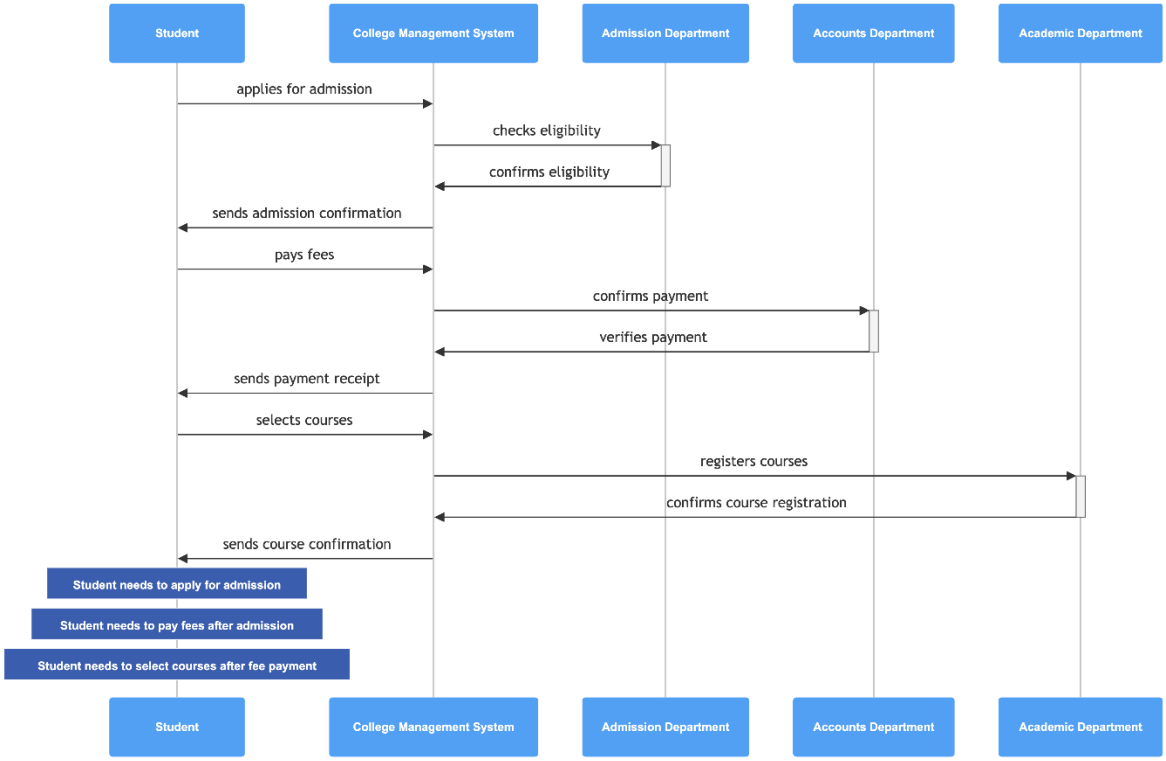
Usecase Diagram of College Management System



Usecase Diagram of Faculty Management System

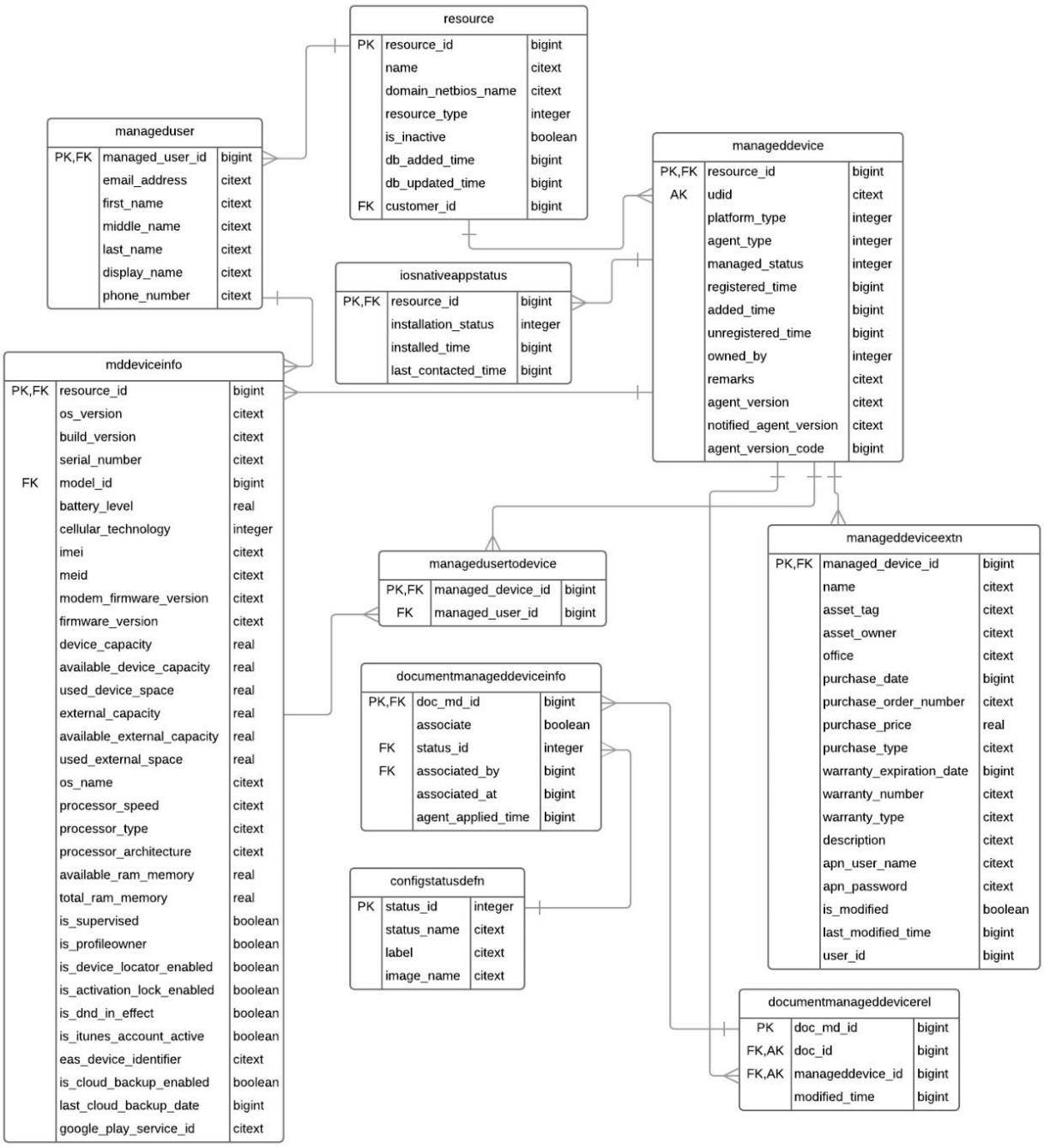
Sequence Diagram

Shows step-by-step interaction during login or operations.



ER Diagram

Defines relationships between database entities.



Module Description

◈ **Admin Module**

- Manage students and faculty
- Manage courses and subjects
- View reports

◈ **Faculty Module**

- Mark attendance

- Upload marks
- View student details

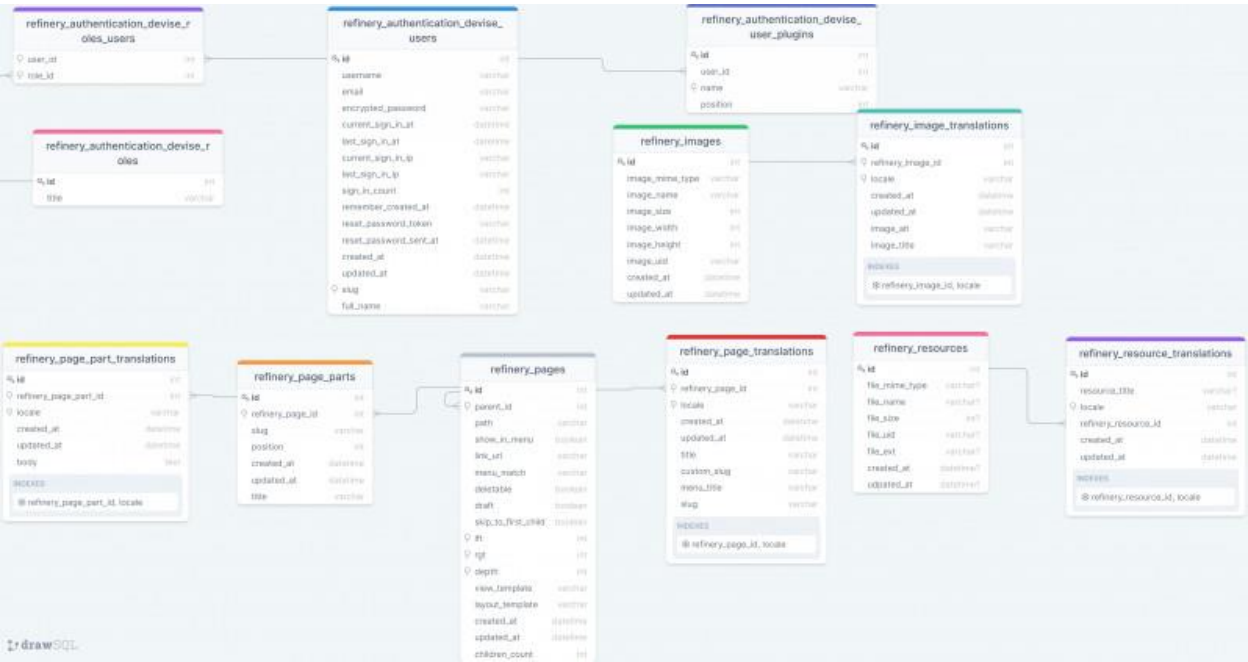
🔷 **Student Module**

- View attendance
- View results
- Update profile

Database Design

The database stores all academic and administrative data securely.
Main tables:

- Admin
- Student
- Faculty
- Course
- Attendance
- Results



Implementation Overview

The system is implemented using **Java (JSP & Servlets)** for backend logic and **MySQL** for data storage.
HTML, CSS, and JavaScript are used to design user-friendly interfaces.
Apache Tomcat is used as the application server.

Testing

Testing ensures the system works correctly and meets requirements.
Testing types:

- Unit Testing

- Integration Testing
- System Testing
- User Acceptance Testing

🔟 Conclusion

The College Management System successfully automates college operations and reduces manual effort. It provides a secure, efficient, and user-friendly platform for managing academic information.