STUDENT MANAGEMENT SYSTEM

A Mini Project Report

Submitted by

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Certified that this is a bonafide record of work for application projects done by the above students for **22CDL41 – DATABASE MANAGEMENT SYSTEM LABORATORY** during the academic year **2024 - 2025.**

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STUDENT MANAGEMENT SYSTEM

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ABSTRACT

The Student Management System (SMS) utilizes Structured Query Language (SQL) and the Flask framework to manage and streamline academic and administrative operations in educational institutions. By automating essential tasks such as student registration, course enrollment, attendance tracking, academic performance management, and feedback collection, the SMS enhances data accuracy and operational efficiency. A robust SQL-based database ensures secure, centralized storage and retrieval of critical student-related data, maintaining data integrity and consistency across all modules.

This system reduces manual workload, minimizes human errors, and facilitates fast and reliable access to student information. It supports role-based access for students, faculty, and administrators, ensuring that each user interacts only with relevant modules and data. The SMS also includes built-in analytics and reporting features, aiding in academic planning and institutional decision-making.

This implementation of a Student Management System using Python (Flask) and MySQL includes the creation of essential tables: Students, Courses, Enrollments, Attendance, Academic Performance, Feedback, Staff, Departments, and Users. It supports full CRUD functionality, secure user authentication, and scalable data management. The system is designed to simplify institutional processes and provide a comprehensive, efficient, and user-friendly platform for managing educational data.