

**DEPARTMENT OF CSE(AI&ML)**

**TITLE: STUDENT INFORMATION MANAGEMENT SYSTEM**

**ABSTRACT**:

The Student Information Management System (SIMS) is a web-based application designed to address the inefficiencies in manual student record management within educational institutions. Traditional methods of storing and updating student marks using Excel sheets and paper-based records are time-consuming, prone to errors, and lack accessibility for students. Faculty members often struggle with managing multiple assessments, while students face difficulties in tracking their academic progress without direct faculty intervention. This system provides a secure and user-friendly interface for faculty to enter, update, and monitor students' marks across various assessments, including mid-term exams, unit tests, and final evaluations. Key features include role-based access control to ensure data security, department-wise organization of student records, automated calculations of cumulative scores, and real-time validation to minimize errors. The platform leverages modern web technologies, HTML, CSS, JS and it includes React.js for the front end, Node.js with Express.js for the back end, and MongoDB/MySQL/Firebase for database management. Additionally, the system offers data export capabilities, detailed performance analytics, and a responsive design, ensuring accessibility across multiple devices. By replacing outdated manual processes with a centralized and automated approach, SIMS enhances data accuracy, reduces faculty workload, improves transparency, and enables students to conveniently access their academic performance anytime, anywhere. This solution ultimately fosters a more efficient and structured academic management system for faculty, students, and administrative staff.

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