



STUDENT MANAGEMENT SYSTEM



PROJECT TEAM

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INTRODUCTION

The Student Management System is designed to simplify student record handling, attendance tracking, and profile management.

Developed using Node.js, Express.js, MongoDB, and EJS, it ensures secure, real-time access for administrators and students, reducing manual work and improving efficiency.

BACKGROUND

Managing student information manually often leads to errors, inefficiencies, and data loss. With the rise of digital solutions, educational departments need dedicated platforms for seamless data handling.

The Student Management System addresses this need by offering a centralized system that automates core tasks like attendance tracking, record management, and student authentication.

PROJECT

- The Student Management System is designed to make student record-keeping easier and faster. It provides a digital platform where administrators can manage student data, attendance, and profiles without paperwork.
- The system uses Node.js, Express.js, MongoDB, and EJS to offer real-time updates and better accessibility. It reduces errors, saves time, and ensures efficient handling of academic information.

PROJECT IMPLEMENTATION

- The project followed a top-down implementation approach, starting with the admin panel.
- Each module was developed and tested individually before full integration.
- Admin functionalities like student record updates and attendance tracking were built first.
- The system was then extended to include the student portal, OTP verification, and backend-managed syllabus.

PROJECT OVERVIEW

- Manage student records easily and digitally.
- Track attendance and student profiles quickly.
- Secure login and profile management for students.
- Real-time updates for efficient academic administration.

PROCESS

- We began by gathering requirements, designing system modules, and choosing the best technologies to develop a reliable student management platform.
- The development process involved coding, testing, and improving features based on feedback to create a secure and user-friendly system.

RESULT

The Student Management System was successfully developed and implemented. It meets all functional requirements, ensures easy student data handling, provides secure access, and streamlines administrative tasks. The system is user-friendly, efficient, and reduces manual workload, contributing to a more organized and technology-driven academic environment.

PROJECT LEGACY

- The system is fully functional and ready for deployment in the department.
- It offers a user-friendly interface and reduces manual workload.
- Built with scalability in mind for future feature additions.
- Provides a strong foundation for digital student management in academic settings.

CONCLUSION

The Student Management System has significantly improved the management of student records, attendance, and communication between students and administrators. Built with modern technologies, it offers a secure, scalable, and user-friendly solution. The project successfully fulfills its objectives, ensuring accuracy, efficiency, and better organization for the department's academic operations.



**THANK
YOU**