

EduNest

School Management System

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INTRODUCTION

- **Efficient School Management** Provides a web-based system for AUP Government School Ayroor to manage attendance, marks, exams, and notifications.
- **Three Modules** Includes Admin, Teacher, and Student for seamless communication.
- **Teacher and Student Features** Teachers manage attendance, marks, and study materials. Students access academic progress and resources.
- **Admin Control** Admins handle profiles, events, and announcements, streamlining school operations.

EXISTING SYSTEM

- **Manual Processes** Attendance, student records, and exam results are recorded on paper, leading to inefficiencies and errors.
- **Slow Data Retrieval** Paper-based records make accessing and updating student data time-consuming and prone to loss.
- **Time-Consuming Tasks** Teachers and administrators manually manage records, exams, and marks, increasing errors and delays.
- **Limited Communication** Announcements rely on notice boards or verbal messages, making it hard to keep everyone informed.
- **No Performance Tracking** Lack of a centralized system makes monitoring student academic progress difficult.

PROPOSED SYSTEM

- **Automated School Management** Transitions from manual processes to a web-based platform for improved efficiency
- **Easy Resource Access** Teachers can upload study materials and exam results for students to access anytime.
- **Real-Time Tracking** Manages student attendance, marks, and exam scheduling seamlessly.
- **Efficient Administration** Admins oversee teacher and student profiles, attendance, and academic performance.
- **Enhanced Communication** Notifications, academic tracking, and announcements keep all users informed.
- **Optimized School Operations** Reduces paperwork, saves time, and fosters a modern, organized learning environment.

MODULES

- **Attendance Management** Teachers mark daily attendance, admins monitor records, and students track their own attendance. Reports can be generated for different time periods.
- **Timetable & Study Materials** Admins manage timetables, teachers access schedules, and students prepare for classes. Teachers upload study materials for easy student access
- **Exam Management** Teachers schedule exams, admins review timetables, and students access schedules and results. The system streamlines exam planning and result publishing.
- **Assignments & Homework** Teachers upload assignments, students submit work, and teachers provide feedback and grades, promoting continuous learning.
- **Student & Teacher Portal** A centralized platform for tracking attendance, timetables, assignments, and exam results, ensuring smooth communication and academic management.

Feasibility study

The proposed School Management System will be a web-based platform accessible from any location with an internet connection. It will be compatible across desktops, laptops, tablets, and smartphones, ensuring ease of use. Built with modern frameworks, the system will offer efficient performance and seamless functionality.

❖ **Operational Feasibility**

❖ **Technical Feasibility**

❖ **Economic Feasibility**

Operational feasibility

- The system will automate routine tasks like attendance recording, exam scheduling, and grade management, allowing teachers and administrators to focus on student development.
- A transition period with training sessions will be required to ensure smooth adoption by staff and students.
- Ongoing technical support and documentation will be provided to assist users during and after implementation.
- The system's user-friendly interface will simplify operations, reducing manual workload and improving efficiency.
- Enhanced automation will minimize errors in administrative tasks, ensuring accurate record-keeping and better data management.

Technical feasibility

- The system will be a web-based application, ensuring accessibility across desktops, laptops, and mobile devices.
- Security measures such as data encryption, secure login, and role-based access control will protect sensitive data.
- Multi-user access will allow admins, teachers, and students to perform tasks seamlessly, ensuring smooth functionality.
- With reliable infrastructure and skilled developers, implementation challenges will be minimal, ensuring smooth deployment.

Economic feasibility

- The platform's cost includes app development, deployment for Android and iOS, and ongoing maintenance.
- Investment can be offset by improved operations, reduced administrative effort, and enhanced resident engagement.
- Features like digital payments, local business hubs, and automated service requests contribute to cost savings and revenue generation.
- Increased efficiency and community collaboration ensure strong economic feasibility.

SYSTEM ENVIRONMENT

❏ Developer Requirement

➤ Hardware Requirement

- Processor : Intel Core i3 and above
- Ram: 8GB or Above
- Storage: 512GB SSD

➤ Software Requirement

- Operating System : Windows 11
- Frontend : HTML,CSS,Javascript
- Backend : NodeJS, ExpressJS
- Database : MongoDB
- IDE : Visual Studio Code
- Web browser : Chrome,Edge,Explorer, etc.....

User Requirement

- Smartphone, Laptop, Computer
- Stable Internet Access

ACTORS AND THEIR ROLES

❖ ADMIN

- Login
- Manage Users
- Schedule Exams
- Manage attendance
- View time table

❖ TEACHER

- Login
- Schedule exams
- Manage attendance
- Upload study material
- View time table
- Provide feedback
- Upload exam results
- Upload assignments

❖ STUDENT

- Login
- View assignment
- Submit homework
- View time table
- Access study material
- View exam results

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THANK YOU