

Website Development for Smart Classroom Management Software for Enhanced Learning Environment

PROBLEM STATEMENT:

Traditional classroom management faces challenges in maintaining student engagement, tracking performance, and optimizing the learning environment. Smart classroom management software offers an integrated solution for the real time monitoring, personalized learning and enhance administrative efficiency

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ABSTRACT

This project aims to revolutionize the educational landscape by developing a smart classroom management software using website development technologies. The platform will enhance the learning environment by integrating key features such as real-time monitoring, automated attendance, personalized learning paths, resource management, gamification, intelligent assistance, and behavioral analytics. The software will modernize the administrative tasks, provide teachers with actionable insights, and foster an engaging learning atmosphere. This system will enhance both teaching efficiency and student success. This software also seeks to streamline classroom operations, foster a more personalized and engaging learning experience, and support educators in creating more effective, data-driven instruction.

IMPLEMENTATION OF SOFTWARE

1.Frontend: *HTML and CSS* are used for designing responsive and intuitive user interfaces.

2.Backend: *Python Flask* acts as the lightweight and powerful web framework to handle server-side logic.

3.Database: *MySQL* is used to manage and store large volumes of data, ensuring scalability and security.

4.AI Integrations: *Machine learning models* are employed for personalized learning paths and behavioral analytics.

5.Deployment: The system will be deployed on *cloud platforms*, ensuring scalability and real-time access

FLOW CHART

