

First Step Learning Platform

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Abstract

In today's digital age, the demand for accessible, personalized, and interactive educational tools has significantly increased. The Learning Platform is an innovative web-based solution designed to enhance the online learning experience by integrating modern technologies and adaptive learning strategies. (Modular and Adaptive Multi-level Academic) aims to cater to diverse learner needs by offering a modular structure of courses, personalized learning paths, real-time performance tracking, and intelligent recommendations. The platform incorporates features such as video lectures, quizzes, interactive simulations, discussion forums, and progress analytics. It also supports teacher dashboards for content management and student monitoring, ensuring a seamless experience for both educators and learners. A key highlight of learn is its adaptability — the system adjusts content difficulty and presentation style based on user interaction and performance, fostering a more engaging and effective learning environment. Developed using modern web technologies and scalable backend architecture, the Learning Platform ensures reliability, usability, and accessibility across devices. This project addresses the gaps in traditional e-learning systems by promoting user engagement, personalized content delivery, and continuous assessment, thereby contributing to a more inclusive and efficient digital education ecosystem.

Keywords

E-learning, Adaptive Learning Modular Education, Online Learning Platform, Personalized Learning, Learning Management System (LMS), Educational Technology, Interactive Learning, Student Performance Tracking, Digital Education