

StudyNation Ed-Tech Project

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Abstract: *Technological advancements continue to evolve at a rapid pace, transforming the educational sector through the introduction of new technologies and methods that improve learning interactions and accessibility. This Paper introduces the EdTech platform StudyNation, which aims to bring together educators and learners in a flexible, interactive, and scalable digital ecosystem. StudyNation applies modern web technologies by offering personalized dashboards, custom course creation, progress tracking, and secure authentication. It also supports students and instructors in content delivery, assessment, and feedback, enabling real-time interaction. This paper describes the architecture and design of StudyNation along with its educational impacts, focusing on self-paced learning and digital literacy. It also highlights the incorporation of responsive UI/UX design with database management and authentication controls for secure user session validation. The results presented demonstrate the relevance of StudyNation for hybrid and remote learning, reinforcing the vision of accessible and inclusive education through technology.*

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