

Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY

Near Jnana Bharathi Campus, Bengaluru-560 056.

(An Autonomous Institution, Aided by Government of Karnataka)



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Project Report on **“E-Learning Platform”**

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Under the Guidance

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2023-2024

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CERTIFICATE

This is to certify that the project entitled “**E-Learning Platform**” submitted in the partial fulfillment of the requirement of the 6th semester java full stack development curriculum during the year 2023-24 is a result of bonafide work carried out by

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ABSTRACT

In an era where accessible, high-quality education is paramount, EduSphere emerges as an innovative e-learning platform designed to aggregate educational content from various reputable sources, offering users a centralized hub for learning and development. This project leverages Angular for the frontend to provide a responsive and user-friendly interface, and Node.js for the backend to ensure robust data handling and processing capabilities.

EduSphere aims to simplify the learning process by offering a seamless user experience, allowing learners to browse courses, track their progress, and access personalized recommendations based on their interests and previous activities. The platform integrates content from external educational providers such as freeCodeCamp, ensuring access to diverse and high-quality resources across multiple fields including coding, personal development, finance, and marketing.

The development process involved detailed planning, requirement analysis, and a structured approach to design, implementation, and testing phases. Key features include user authentication, course management, progress tracking, and an admin dashboard, all designed to provide a comprehensive and effective learning environment. The project also emphasizes non-functional requirements such as performance, usability, security, scalability, and reliability.

This report details the design, implementation, and testing phases of EduSphere, highlighting the challenges faced and the solutions implemented. EduSphere is poised to make a meaningful impact on the educational landscape by continuously evolving to meet the changing needs of modern learners, providing a valuable resource for those seeking to expand their knowledge and skills in an ever-changing world.

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