

ABSTRACT

This project involves the development of a Q&A platform similar to Stack Overflow, leveraging the MERN stack—MongoDB, Express.js, React, and Node.js. The platform aims to replicate essential features of Stack Overflow, providing a community space where developers can seek and share expertise. At its core, the platform will feature robust user authentication to ensure secure login and registration, allowing users to manage their accounts efficiently. The question and answer posting system will be designed to facilitate seamless knowledge sharing, enabling users to pose queries and offer solutions effectively. A comprehensive voting system will be integrated, allowing users to upvote or downvote content, thereby highlighting the most valuable contributions and maintaining the quality of information. Additionally, the platform will support a commenting system where users can engage in discussions, seek clarifications, and provide detailed insights. To enhance user experience, the platform will incorporate advanced search functionality, enabling users to quickly locate relevant questions and answers using keywords and filters. Personalized user profiles will display individual activity, contributions, and reputation within the community, fostering a sense of identity and engagement among users. In developing this platform, the project will explore various aspects of MERN stack development. This includes designing an efficient database schema with MongoDB to store and manage data effectively, utilizing Express.js to build a robust backend infrastructure, leveraging React for a dynamic and responsive user interface, and deploying the application with Node.js to ensure seamless server-side operations.