

Full Stack Web Development Project

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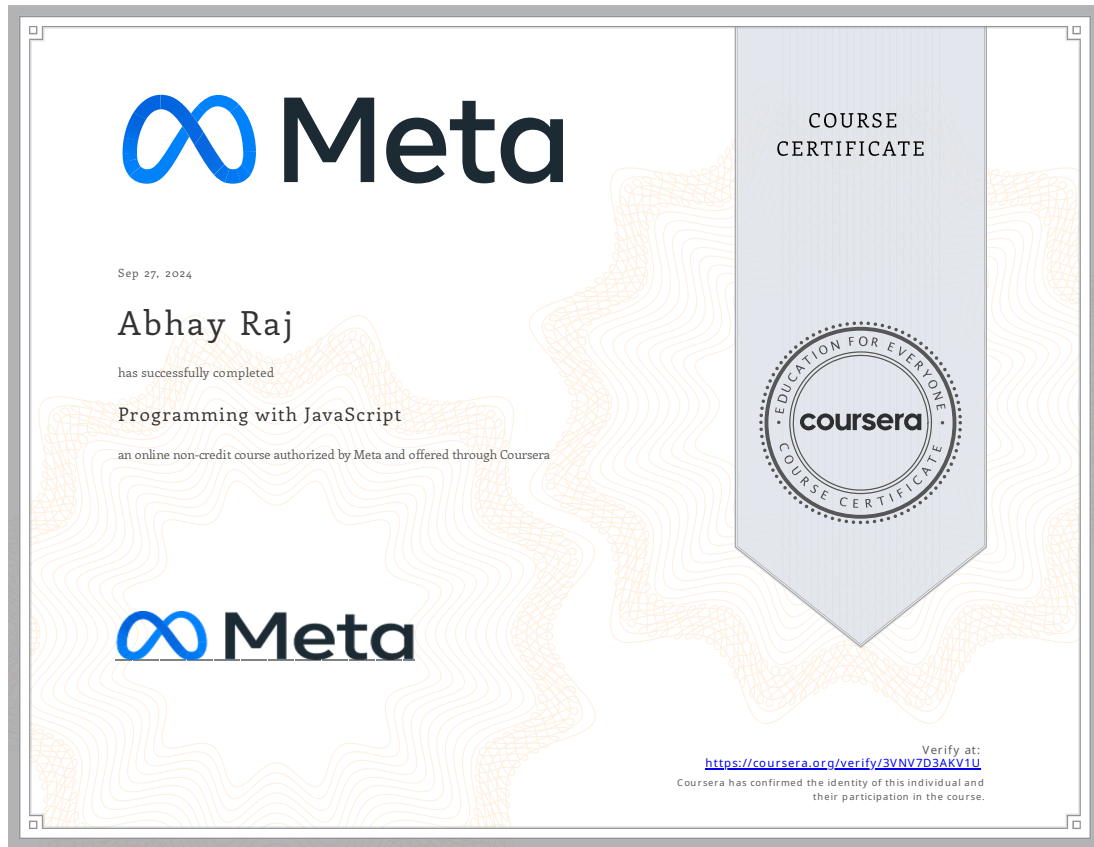
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Certificate



Abstract

This project report presents the development of SocSpecs, a full-stack web application built to enhance the user experience of social interaction by sharing and discovering new perspectives. SocSpecs enables users to create, share, and explore posts with a unique focus on user-generated content that reflects individual views on various topics. This application combines a modern, scalable, and performant tech stack: JavaScript, Next.js, PostgreSQL, and Tailwind CSS.

Next.js was selected as the primary framework for its flexibility and strong support for server-side rendering (SSR), allowing for fast load times and SEO-friendly pages. PostgreSQL serves as the relational database for handling persistent data storage, ensuring data integrity and security for user profiles, posts, likes, and comments. Tailwind CSS provides a utility-first approach to design, enabling a responsive and visually appealing user interface. JavaScript drives the core logic and dynamic behavior of the application, bridging the back-end with the front-end for a seamless user experience.

This report documents the design and development process, covering architecture, user interface, database structure, and functionality. It also discusses challenges faced during implementation and the solutions devised to overcome them. The outcome is a user-centered platform that offers a rich, interactive experience, fostering community engagement through a responsive and visually coherent interface.

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