

Project Design Phase

Solution Architecture

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| Date | 20 February 2026 |
| Team ID | LTVIP2026TMIDS77212 |
| Project Name | FreelanceFinder: Discovering Opportunities, Unlocking Potential |
| Maximum Marks | 4 Marks |

Solution Architecture:

The solution architecture defines the overall structure of the **SB Works** freelancing web application and explains how different system components interact with each other. It bridges the gap between business requirements and technical implementation by organizing the frontend, backend, database, and supporting services in a structured and scalable manner.

The architecture ensures secure communication between users (Clients, Freelancers, and Admins) and the system, manages project posting and bidding workflows efficiently, and supports scalability and performance. It clearly defines how authentication, REST APIs, database operations, and optional third-party integrations (such as payment gateways) work together to deliver a seamless freelancing experience.

The frontend layer (React.js) handles user interaction and dashboard presentation, while the backend layer (Node.js & Express.js) processes business logic, role-based authorization, and API requests. The MongoDB database stores user profiles, project details, bids, reviews, and transaction data. Secure JWT-based authentication protects sensitive operations and ensures proper access control.

Solution Architecture Diagram:

