

Project Design Phase-II
Technology Stack (Architecture & Stack)

Date	26 February 2026
Team ID	LTVIP2026TMIDS38083
Project Name	FreelanceFinder: Discovering Opportunities, Unlocking Potential
Maximum Marks	4 Marks

Technical Architecture:

The Deliverable shall include the architectural diagram as below and the information as per the table1 & table 2

Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1	User Interface	Web interface for clients and freelancers to interact with the platform	HTML, CSS, JavaScript, React.js, Bootstrap
2	Application Logic-1	Backend logic for user authentication and project management	Node.js, Express.js
3	Application Logic-2	Logic for bidding, chat, and workflow management	Node.js (REST APIs)
4	Application Logic-3	Admin monitoring and validation processes	Express.js
5	Database	Storage for users, projects, bids, and reviews	MongoDB (NoSQL)
6	Cloud Database	Cloud-based database hosting	MongoDB Atlas
7	File Storage	Storage for portfolio files and project submissions	Cloud Storage / Local File System
8	External API-1	Email notification service for registration and updates	NodeMailer / Gmail API

S.No	Component	Description	Technology
9	External API-2	Social login integration	Google OAuth / LinkedIn API
10	Machine Learning Model	(Optional) Future enhancement for project recommendation	Python (Scikit-learn – optional)
11	Infrastructure (Server / Cloud)	Application deployment and hosting	Local Server / Cloud (Render / AWS / IBM Cloud)

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1	Open-Source Frameworks	Frameworks used for frontend and backend development	React.js, Node.js, Express.js, MongoDB
2	Security Implementations	Secure login and data protection mechanisms	JWT Authentication, Password Hashing (bcrypt), HTTPS
3	Scalable Architecture	3-tier architecture with separate frontend, backend, and database layers	MERN Stack Architecture
4	Availability	Cloud deployment ensures continuous system availability	Cloud Hosting (AWS / Render / IBM Cloud)
5	Performance	Fast data retrieval and optimized API responses	MongoDB Indexing, REST APIs, Caching (optional)

