

## Project Design Phase-II

### Solution Requirements (Functional & Non-functional)

Date	20 June 2025
Team ID	LTVIP2025TMID56879
Project Name	FreelanceFinder: Discovering Opportunities, Unlocking Potential
Maximum Marks	4 Marks

#### Functional Requirements:

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
NFR-1	Usability	Intuitive UI for freelancers and clients using React.js, Bootstrap, and MUI
NFR-2	Security	Secure login, data protection, and admin oversight
NFR-3	Reliability	Consistent project handling with error reporting
NFR-4	Performance	Optimized backend APIs and database queries using Node.js and MongoDB
NFR-5	Availability	24/7 availability with real-time notifications
NFR-6	Scalability	Easily extendable for growing user base and future modules

#### Non-functional Requirements:

Following are the non-functional requirements of the proposed solution.

FR No.	Non-Functional Requirement	Description
NFR-1	<b>Usability</b>	The platform should offer an intuitive and user-friendly interface for freelancers and clients. Key actions such as posting projects, bidding, messaging, and submitting work should be easily accessible with minimal training.
NFR-2	<b>Security</b>	The platform must enforce secure authentication mechanisms (e.g., encrypted passwords, token-based login). All user data, transactions, and communications should be protected against unauthorized access and breaches.
NFR-3	<b>Reliability</b>	SB Works should ensure consistent and error-free performance. Critical operations like bidding, project submission, and payment tracking must function reliably without loss or corruption of data.
NFR-4	<b>Performance</b>	The application should maintain fast response times (under 2 seconds for 95% of requests). Backend services must handle concurrent requests efficiently during peak usage.
NFR-5	<b>Availability</b>	The platform must be accessible 24/7 with minimal downtime. Scheduled maintenance should be communicated in advance, and failover systems should be in place to ensure continuity.

NFR-6	<b>Scalability</b>	The system should be designed to support increasing numbers of users, projects, and interactions without performance degradation. Infrastructure should support horizontal and vertical scaling.
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