# Technology Stack (Architecture & Stack)

| Date | 27-06-2025 |
| --- | --- |
| Team ID | LTVIP2025TMID58018 |
| Project Name | Freelance Finder |
| Maximum Marks | 4 Marks |

## Technical Architecture:

Freelance Finder is designed with a scalable 3-tier architecture consisting of:  
  
• Presentation Layer (Frontend): Provides a user-friendly interface for freelancers and clients to interact, post jobs, and apply.  
• Business Logic Layer (Backend): Manages job listings, proposals, hiring workflows, messaging, reviews, and payments.  
• Data Storage Layer: Securely stores user profiles, job data, transaction history, messages, and ratings.  
  
The platform integrates with third-party APIs for payment processing, email/SMS notifications, and OAuth login (Google, GitHub, LinkedIn).

## Table-1: Components & Technologies

| S.No | Component | Technology |
| --- | --- | --- |
| 1 | User Interface | HTML, CSS, JavaScript, React.js (Web & Mobile friendly UI) |
| 2 | Application Logic-1 | Node.js, Express.js (Job posting, proposals, messaging, payments) |
| 3 | Application Logic-2 | React.js, Node.js (Admin panel, reporting, user moderation) |
| 4 | Database | MongoDB (User data, job records, messages, transactions) |

## Table-2: Application Characteristics

| S.No | Characteristics | Technology |
| --- | --- | --- |
| 1 | Open-Source Frameworks | React.js, Node.js, Bootstrap, Tailwind CSS |
| 2 | Scalable Architecture | Microservices architecture using RESTful APIs |
| 3 | Cross-platform Compatibility | Responsive web design supported on major browsers and mobile devices |
| 4 | API Integration | Payment Gateway, Notification (Email/SMS), OAuth (Google, GitHub, LinkedIn) |