**Project Design Phase-II**

**Technology Stack (Architecture & Stack)**

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| Date | 27 JUNE 2025 |
| Team ID | LTVIP2025TMID58651 |
| Project Name | Resolve Now |
| Maximum Marks | 4 Marks |

**Technical Architecture:**

The Resolve Now platform is designed with a scalable 3-tier architecture that includes the presentation layer (frontend), business logic (backend), and data storage layer. The solution ensures performance, security, and ease of integration with third-party APIs (e.g., Stripe for payments).

**Table- 1: Components & Technologies:**

| **S. No** | **Component** | **Description** | **Technology** |
| --- | --- | --- | --- |
|  | User Interface | Web-based interface for clients and freelancers | HTML, CSS, Java Script / React.js etc. |
|  | Application Logic-1 | Complaints posting | Node.js, Express.js |
|  | Application Logic-2 | Handles core business logic (job posting, bidding ,etc.)   |  | | --- | |  |  |  | | --- | |  | | Node.js, Express.js |
|  | Database | Stores user data, jobs, applications, messages | MongoDB |

**Table-2: Application Characteristics:**

| **S. No** | **Characteristics** | **Description** | **Technology** |
| --- | --- | --- | --- |
| 1. | Open-Source Frameworks | Frontend frameworks | React.js, Node.js, Boot Strap, Tailwind CSS |
| 2. | Scalable Architecture | 3-tier architecture with RESTful APIs | Microservices |

**References:**

[**React.js Documentation**](https://react.dev/)

[**Node js Best Practice**](https://nodejs.org/en/learn/getting-started/introduction-to-nodejs)

[**JSON Web Server Referance**](https://www.npmjs.com/package/json-server)

[**https://medium.com/the-internal-startup/how-to-draw-useful-technical-architecture-diagrams-2d20c9fda90d**](https://medium.com/the-internal-startup/how-to-draw-useful-technical-architecture-diagrams-2d20c9fda90d)