**Project Design Phase-II**

**Technology Stack (Architecture & Stack)**

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| Date | 25 June 2025 |
| Team ID | LTVIP2025TMID52981 |
| Project Name | Onderonthego |
| Mentor Name | Dr Shaik Salma Begam |
| Maximum Marks | 4 Marks |

**Technical Architecture:**

SB foods is designed with a scalable 3-tier architecture consisting of:

Presentation Layer (Frontend): User-friendly interface for patients and healthcare providers to book and manage appointments.

Business Logic Layer (Backend): Handles appointment scheduling, notifications, user management, and telehealth integration.

Data Storage Layer: Secure storage of user profiles, appointment records, and healthcare provider details.

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

|  |  |  |  |
| --- | --- | --- | --- |
| sno | Component | Description | Technology |
| 1. | User Interface | Web and mobile-friendly interface for patients and providers | HTML, CSS, JavaScript / React Js etc. |
| 2. | Application Logic-1 | Appointment booking, calendar management, reminders | Node.js, Express.js |
| 3. | Application Logic-2 | Admin panel, provider management, reporting | React js, Node js |
| 4. | Database | Stores user profiles, appointments, provider datas | MongoDB |

**Table-2: Application Characteristics:**

| **S.No** | **Characteristics** | **Description** | **Technology** |
| --- | --- | --- | --- |
| 1. | Open-Source Frameworks | Frontend frameworks | React.js, Node.js, BootStrap, Tailwind CSS |
| 2. | Scalable Architecture | 3-tier architecture with RESTful APIs | Microservices |
| 3. | Open-Source Frameworks | Frontend frameworks | React.js, Node.js, BootStrap, Tailwind CSS |
| 4. | 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-](https://medium.com/the-internal-startup/how-to-draw-useful-technical-architecture-diagrams-2d20c9fda90d) [diagrams-2d20c9fda90d](https://medium.com/the-internal-startup/how-to-draw-useful-technical-architecture-diagrams-2d20c9fda90d)**