**Project Design Phase-II**

**Technology Stack (Architecture & Stack)**

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| --- | --- |
| Date | 26-05-2025 |
| Team ID | LTVIP2025TMID59421 |
| Project Name | OrderOnTheGo: Your On-Demand Food Ordering Solution |
| Maximum Marks | 4 Marks |

**Technical Architecture:**

The Food Ordering App is designed with a scalable 3-tier architecture consisting of:

* **Presentation Layer (Frontend):** User-friendly interface for customers and restaurant owners to browse menus, place orders, and manage profiles.
* **Business Logic Layer (Backend):** Handles order processing, notifications, user authentication, payment processing, and restaurant management.
* **Data Storage Layer:** Secure storage of user profiles, order history, restaurant details, and payment records.

The platform integrates with third-party APIs for notifications (SMS/email) and payment gateways to enhance usability and security.

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

| **S.No** | **Component** | **Description** | **Technology** |
| --- | --- | --- | --- |
|  | User Interface | Web and mobile-friendly interface for customers and restaurant owners | HTML, CSS, JavaScript / React Js etc. |
|  | Application Logic-1 | Order placement, cart management, notifications, and payment processing | Node.js, Express.js |
|  | Application Logic-2 | |  | | --- | | Admin panel, restaurant management, analytics and reporting | | React js, Node js |
|  | Database | Stores user profiles, orders, restaurant data, and payment history | MongoDB |

**Table-2: Application Characteristics:**

| **S.No** | **Characteristics** | **Description** | **Technology** |
| --- | --- | --- | --- |
|  | Open-Source Frameworks | Frontend frameworks | React.js, Node.js, BootStrap, Tailwind CSS |
|  | 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)