Project Design Phase-II
Technology Stack (Architecture & Stack)

Date	26-05-2025
Team ID	LTVIP2025TMID24694
Project Name	*OrderOnTheGo*
Maximum Marks	4 Marks

Technical Architecture:

The *OrderOnTheGo* platform is built using the **MERN stack** and follows a structured **3-tier architecture**:

- **Presentation Layer**: Developed with React.js to support dynamic rendering, routing, and role-based dashboards (User, Restaurant, Admin).

- **Business Logic Layer**: Uses Node.js with Express.js to handle API requests, authentication, cart management, and order processing.

- **Data Layer**: MongoDB stores all data related to users, products, restaurants, orders, and admin functions.

Table-1 : Components & Technologies:

S. No.	Component	Description	Technology
1	User Interface	React-based web UI for users, restaurants, and admins	React.js, JavaScript, CSS
2	Application Logic - 1	Cart handling, order placement, login, and routing	Node.js, Express.js
3	Application Logic - 2	Admin panel, restaurant dashboard, product management	React.js (components), Node.js (backend)
4	Database	Stores users, restaurants, orders, products, cart data	MongoDB

Table-2: Application Characteristics:

S. No.	Characteristics	Description	Technology
1	Open-Source Frameworks	Frontend and backend technologies	React.js, Node.js, Express.js

2	Scalable Architecture	Modular 3-tier design with tokenbased access control	RESTful APIs, JWT, MongoDB

References:

React.js Documentation

Node js Best Practice **JSON**

Web Server Reference

https://medium.com/the-internal-startup/how-to-draw-useful-technical-architecturediagrams-2d20c9fda90d

MongoDB docs