

Project Design Phase-I
Solution Architecture

Date	15 October 2023
Team ID	PNT2022TMID 590947
Project Name	Project – Express Eats (snack squad)
Maximum Marks	4 Marks

Solution Architecture:

This architecture offers a structured and efficient system for the food delivery app, supporting user interactions from account creation to order completion.

1. **User Interaction Layer:** This layer manages user identification and authentication, ensuring secure access to the app. It handles user sign-in, sign-up, and session management.
2. **Data Processing and Communication Layer:** Positioned in the backend, this layer acts as an intermediary between the user interface and the database, facilitating user requests and data retrieval via a RESTful API.
3. **Data Retrieval and Presentation Layer:** This component is responsible for fetching data from the MySQL database and presenting users with a list of nearby restaurants and their menus, making it easy for users to browse and select their preferred food items.
4. **Location Services and Optimization:** Utilizing location data from GPS or location-based services, this layer determines the user's current location and identifies nearby restaurants, enhancing the user's ability to find relevant dining options. It also optimizes search queries for improved app performance.

Example - Solution Architecture Diagram:

