Project Design Phase-I
Solution Architecture

Date	18 October 2023
Team ID	Team-590986
Project Name	Project - Snack Squad: A Customizable Snack Ordering and Delivery App
Maximum Marks	4 Marks

Solution Architecture:

User Registration and Authentication:

- Allow users to sign up and log in with email, social media, or phone number.

User Profile:

- Users can create and manage their profiles, including delivery addresses, payment methods, and preferences.

Home Page:

- Display a list of snacks with high-quality images and brief descriptions.
- Implement filters and categories (spicy, desserts, sweet, etc.) for easy navigation.

Add to Cart & Checkout:

- Enable users to add items to their cart from the home page.
- Users can review their cart, modify quantities, and proceed to checkout.
- Integration with payment gateways for secure transactions.

Recipe Integration:

- Link recipes to food items so users can view detailed cooking instructions and ingredient lists.

Mood-Based Suggestions:

- Implement an algorithm that suggests snacks based on the user's mood or preferences. This can be integrated into the home page or a separate "Mood" section.

Ratings and Reviews:

- Allow users to rate and write reviews for both food items and recipes.
- Implement a rating system that calculates average ratings for items.

User-Generated Content:

- Enable users to share their food experiences, tips, and favourite recipes.
- Implement a social feed or forum-like section for users to engage and interact.

Coupons and Discounts:

- Integrate a coupon and discount system where users can apply promo codes during checkout.

Order History:

- Users can view their order history, including previous orders and receipts.

On-Demand Support:

- Provide a chat or support feature where users can seek help or assistance.

Favourites:

- Users can mark items as favourites for quick access in the future.

Nutritional Information:

- Include detailed nutritional information for each food item, such as calories, carbs, fat content, etc.

Custom Collections:

- Allow users to create custom collections like "Weeknight Dinners" or "Healthy Snacks."

Search Functionality:

- Implement a robust search feature for users to find specific items or recipes.

Order Tracking:

- Provide real-time order tracking with status updates for users and delivery personnel.

Push Notifications:

- Send notifications for order updates, discounts, or personalized suggestions.

Multi-Platform Support:

- Develop apps for both iOS and Android, and possibly a web version for wider accessibility.

Admin Dashboard:

- Create an admin panel to manage user accounts, food items, recipes, and reviews.

Analytics:

- Incorporate analytics tools to track user behaviour, popular items, and app performance.

Security and Privacy:

- Implement robust security measures to protect user data and payment information.

Scalability:

- Design the architecture to handle a large user base and increasing traffic.

Localization:

- Support multiple languages and currencies for a broader user base.

Feedback Mechanism:

- Provide a way for users to submit feedback and report issues within the app.

Continuous Improvement:

- Regularly update the app based on user feedback and changing trends.

Solution Architecture Diagram: