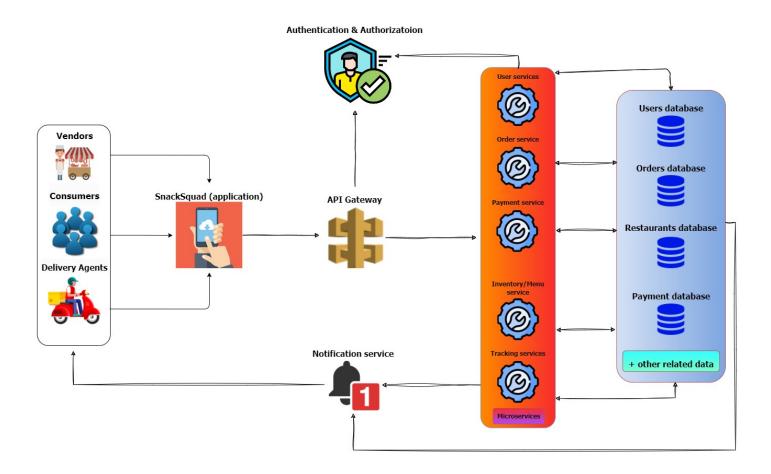
Project Design Phase-I

Solution Architecture

Date	23 October 2023
Team ID	Team-591037
Project Name	Snack Squad: A Customizable Snack Ordering And Delivery App
Maximum Marks	4 Marks

Solution Architecture:



Different layers of the application's architecture involve:

Front-End:

The front-end of the Android app consists of user interfaces and user experience components.

Back-End:

API Gateway:

An entry point for the Android app that routes requests to the appropriate microservices and handles authentication.

Microservices:

- User Service: Manages user registration, authentication, and profile information.
- Product Service: Maintains the catalog of snacks, including details such as product information, pricing, and availability.
- Order Service: Manages the ordering process, order history, and payment processing.
- Delivery Service: Coordinates snack delivery, including driver assignment and real-time tracking.
- Authentication: Handles user authentication using Firebase Authentication.

Database:

A relational database (e.g., PostgreSQL, MySQL) stores user data, order information, product details, and delivery status.

Third-Party Services:

- Payment Gateway: Integrates with a secure payment gateway (e.g.,UPI, PayPal) for processing payments.
- Push Notifications: Implements a push notification service (e.g., Firebase Cloud Messaging) to send order updates and promotional messages.

Cloud Infrastructure