Problem Statement : Optimizing Waste Management System

Proposed Solution : Developing an app which links together Companies, Organisations and Individuals to facilitate the donation of surplus food.

Key Features:
User Registration: Users can create accounts with their contact information and food donation preferences.
Options for both individual donors and businesses.
Food Donation Listings:
Donors can create listings for surplus food items they wish to donate.
Include details like type of food, quantity, expiration date, and location for pickup.
Food Request System:
Charities, food banks, and individuals in need can request specific food items.
Notifications are sent to donors with matching listings.
Location-Based Search:
Users can search for food donations and requests based on their location.
A map view displays nearby donation and pickup points.
Messaging and Notifications:
In-app messaging allows donors and recipients to communicate.
Push notifications inform users of new donation listings or requests.
Food Safety Guidelines:
Include resources and tips on safe food handling and donation.
Ensure compliance with food safety regulations.
User Ratings and Reviews: Implement a rating and review system to build trust within the community. Users can leave feedback about their donation or pickup experience.
Scheduling and Reminders: Donors and recipients can schedule food pickups, and the app sends reminders to both parties.

Analytics Dashboard: Provide metrics for the number of successful donations, food waste reduction, and community impact.
Admin Panel: A backend dashboard for app administrators to monitor and moderate listings and user activity.

Monetization Strategies:
Subscription Plans: Offer premium features for businesses and organizations, such as advanced search filters and priority listings.
Donation Fees: Charge a small fee for businesses and restaurants for each successful food donation to support the platform.
Advertisements: Display local advertisements from businesses that support the app's mission.

Technology Stack:

Front-end: Native mobile app development for iOS and Android (using Swift for iOS and Java/Kotlin for Android) or cross-platform development using frameworks like React Native or Flutter.

Back-end: Node.js, Python, or Ruby on Rails for the server, with databases like PostgreSQL or MongoDB.

Geolocation Services: Integration with Google Maps for location-based features.

Messaging: Implement real-time messaging using tools like Firebase Cloud Messaging.