**Food Delivery App (Group Project)**

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**Objective**:

To provide users with a convenient platform to order and track deliveries of goods or services directly from their mobile devices. It aims to streamline the ordering process, facilitate efficient logistics, and enhance customer satisfaction through real-time updates and ease of access.

**Target Customer**:

* Busy professionals who value convenience and time-saving services.
* Tech-savvy users who are comfortable using apps for their daily needs.
* Urban dwellers where delivery services are more accessible.
* Students who may prefer the ease of delivery for meals
* Elderly or disabled individuals who may have limited mobility and benefit from home delivery.

**Application Description**:

**User Registration & Profiles**

The app allows users to create personalized accounts with secure email and password login. Users can easily manage their personal information, track order history and see their favorites. Profile customization is available, allowing users to update their username and email.

**Restaurant Browsing**

An intuitive restaurant catalog allows users to browse restaurants by location, cuisine, and ratings. The search functionality includes smart suggestions and recent searches, providing users with a seamless browsing experience.

**Payment Gateway Integration**

The app integrates secure and trusted payment processors to facilitate fast and seamless transactions. The payment process is designed to be smooth, secure, and user-friendly.

**Order History**

Users can view a comprehensive history of their past orders, including restaurant details, items ordered, and payment summaries.

**Favorites**

A favorites system enables users to save and organize their preferred restaurants for easy access in future sessions. This allows users to quickly order from their go-to places without needing to browse or search repeatedly.

**Category Filter**

To streamline the user experience, the app offers category-based filtering, allowing users to sort restaurants based on cuisine types (e.g. Japanese, Dessert, Mexican) . This feature helps users quickly narrow down choices based on their preferences.

**Dark and Light Theme Settings**

The app includes both dark and light themes, allowing users to choose their preferred visual setting. This ensures a comfortable user experience, whether in bright daylight or in low-light environments, with easy switching between themes.

**Tools and Resources**:

* Visual Studio Code
* Flutter
* Firebase
* Figma
* Trello
* Stripe API
* Github
* Riverpod
* Hive

**Implementation Plan**:

* Define the app’s goals, target audience, and core features.
* Design the app's interface and user experience.
* Build the server-side infrastructure and database.
* Develop the app’s frontend for Android.
* Integrate secure payment processing and notification services.
* Ensure the app is bug-free and works smoothly across devices.

**Weakness**:

* Limited Expertise in Delivery App Development, particularly concerning the implementation of essential delivery app features.
* Absence of Live Tracking Functionality, preventing users from monitoring their orders in real-time.
* Inability for Users to Reorder from Order History, hindering convenience for repeat customers.
* Lack of Advanced Sorting Options, which restricts users from filtering results based on criteria such as price or location.

**Challenges**:

* Required to research more advanced Flutter concepts/methods.
* Required to research about to-be-integrated APIs

**Future Plan**:

* Integrate Google Maps API for real-time order tracking, allowing users to monitor the live location of their delivery.
* Add Reorder Functionality, enabling users to quickly reorder from their favorite or previously visited restaurants.
* Implement Advanced Sorting Options such as sorting by price, location, and restaurant rating to enhance the browsing experience.
* Enhance Scalability and Performance, optimizing the app to handle increasing user traffic and ensure smooth, responsive interactions.