FusionCart – Mobile App For Multiple Restaurant Orders and Delivery

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Abstract:

The mobile application is designed to provide users with a dual-mode platform for food ordering and parcel delivery services. The Ordering Mode allows users to select meals from local restaurants and suggests popular nearby dishes, enhancing the ordering experience through curated recommendations. The Delivery Mode offers users an opportunity to become delivery partners, enabling them to deliver items while commuting to their own destinations, such as work or college, thus integrating flexible income generation into their daily routines. The app incorporates real-time tracking, providing transparency for both order tracking and delivery location monitoring, enhancing the user experience in both modes.

Modules and Functionalities:

1. User Registration and Authentication Module

Features: Sign-up, login, and profile creation for both customers and delivery partners.

Functionality: Secure authentication with options for social media or email login, and role-based access depending on selected mode (customer or delivery partner).

2. Ordering Mode Module

Restaurant Listing and Food Selection: Displays a list of nearby restaurants with detailed menus.

Recommendation Engine: After selecting a primary item, this module suggests top-ordered foods from nearby restaurants for a customized meal experience.

Cart and Payment: Allows users to add items from different restaurants to their cart and supports payment options.

Order Confirmation and Tracking: Confirms order placement and shows estimated delivery time with real-time tracking of the order's status.

3. Delivery Partner Mode Module

Parcel Pickup and Delivery Selection: Enables delivery partners to view nearby delivery requests and select ones along their travel routes.

Navigation and Real-Time Tracking: Provides GPS tracking for the delivery route, with location sharing for both sender and receiver.

4. Real-Time Location Tracking Module

Live Location for Orders: Displays real-time tracking for orders in transit in both Ordering and Delivery modes.

GPS Navigation Integration: Utilizes GPS for optimized routes for delivery partners, providing accurate location updates to the user.

5. Notifications and Alerts Module

Order Status Updates: Sends notifications for order placement, dispatch, and estimated time of arrival.

Delivery Partner Alerts: Notifies delivery partners of new delivery requests and nearby pick-up options.

Tech Stack:

- Kotlin
- Xml
- Firebase
- Android Studio(Platform)

Summary

This app combines food ordering with flexible delivery options, enhancing customer convenience and offering a unique income opportunity for delivery partners. Each module integrates seamlessly to support efficient, real-time service delivery, making this app a versatile solution in the food and logistics market.