

Hackathon Task for Web and Mobile App Development (Batch – 7)

Restaurant Ordering App

Description

This app allows users to browse a restaurant's menu, place orders, and manage user accounts. It's a miniaturized version of a full-featured restaurant app, with Firebase powering real-time data updates and Firestore storing all menu and order details.

Key Features

1. User Authentication & Profiles

- Use Firebase Authentication to let users create accounts or log in.
- User profiles can store order history, preferences, and saved items.

2. Menu Management

- Use Firestore to store menu items, categorized by type (e.g., appetizers, main courses, desserts).
- Firebase Storage for storing menu item images.
- Admin functionality for managing menu items (add, edit, delete).

3. Ordering System

- Users can add items to a cart, customize items (e.g., toppings or spice levels), and place orders.
- Real-time updates of order status (e.g., "Preparing," "Ready for Pickup," "Delivered") through Firestore.

4. Admin Dashboard

- A separate interface for restaurant staff to view and manage incoming orders.
- Allows status updates on orders, accessible to the customer in real-time.

5. Favorites and Wishlist

- Enable users to save favorite menu items or mark items they want to try in the future.
- Store this data in Firestore for easy retrieval.

6. Push Notifications (Optional)

- Send users notifications for order updates or special offers.
- Firebase Cloud Messaging can be used for real-time notifications.

7. Order History and Feedback

- Store completed orders in Firestore, allowing users to view past orders and reorder easily.
- Allow users to leave feedback on each item they ordered, with ratings and comments saved in Firestore.

8. Table Reservation (Optional)

- Users can reserve tables directly through the app for dine-in options.
- Reservation details saved in Firestore, with options for date, time, and party size.

Technical Stack

- **Frontend:** React with Context for state management.
- **Database:** Firestore for real-time data storage and syncing.
- **Storage:** Firebase Storage for images of menu items and restaurant details.
- **Authentication:** Firebase Authentication for user login and account management.
- **Notifications:** Firebase Cloud Messaging (for sending notifications on order updates).

Stretch Goals

- **Multi-Restaurant Support:** If students want a bigger challenge, expand the app to support multiple restaurants.
- **Customer Reviews and Ratings:** Let customers leave reviews for menu items to create a community-driven feel.
- **Delivery Tracking:** Add a basic delivery tracking system for users who order food for delivery, using Firestore to update order location/status.

This project offers hands-on experience with a variety of Firebase services and teaches how to build a full-stack, real-time application that covers many aspects of app development.

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