Moters: The Material Version of toters

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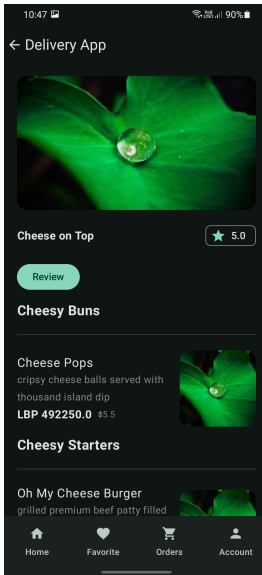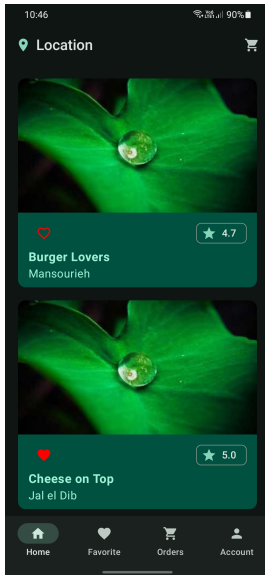
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Introduction

This application streamlines the food ordering and delivery process, allowing users to browse restaurants, place orders, and track deliveries in real time, all from a single platform. It aims to provide a convenient, efficient, and seamless experience for users, enhancing their ability to manage food orders and deliveries.

Introduction

Features

- ▶ Secure user authentication (JWT).

- ▶ Browse and order food from restaurants.

- ▶ Mark your favorite restaurants for faster access.

- ▶ Submit and view restaurant reviews.

- ▶ View order history (past and pending orders).

- ▶ Order tracking.

- ▶ Rate delivery drivers.

- ▶ Manage user profile details.

Technical Implementation

Architecture:

- **Pattern:** MVVM (Model-View-ViewModel).

Technologies:

- **Libraries:**
    - Retrofit for API calls.
    - Room for local database.
    - Jetpack Compose for a declarative UI.
    - Google Play Services (GM) to access location data.
    - LiveData and ViewModel for UI-related data.
    - Osmdroid for map rendering.
    - JWTDecode for token authentication.

- **Design Patterns:**
    - Singleton for shared resources.
    - Repository for data management.

Challenges and Solutions

Challenge	Solution
Maintain JWT across sessions	Secure storage in SharedPreferences and validation using JWTDecode.
Maintain state across activities	Used shared ViewModel instances.
Integrate Jetpack Compose with traditional View-based UIs	Clear project structure enabled seamless integration of both UI technologies.

Future Enhancements

- Add more information to the user profile.

- Implement advanced order customization options.

- Add support for real-time order tracking.

- Allow restaurant and driver communication.

- Integrate machine learning for personalized recommendations.

Future Enhancements

- Add rewards, credits, and promo codes.

- Support chat with customer service.

- Enhance UI and transitions between screens.

- Improve the restaurants page with a search bar.

- Add notification and advertising support.

Thank you

Repository Link: `https://github.com/Ghaadyy/delivery-app`