Masters Project

QuickRide - A Serverless Mobile App

Presented by - Sai Palutla

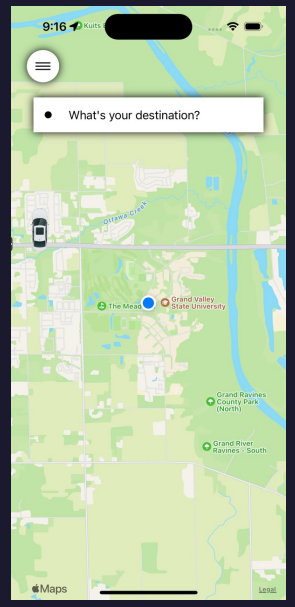
Advisor - Dr. Robert Adams, Ph.D.

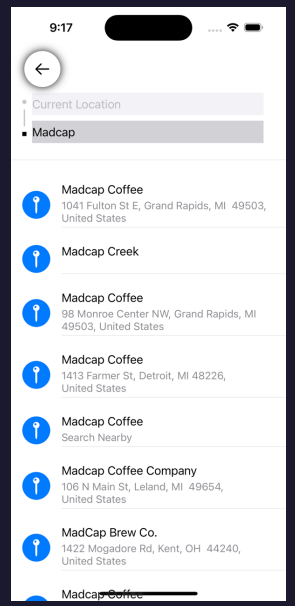
SwiftUI

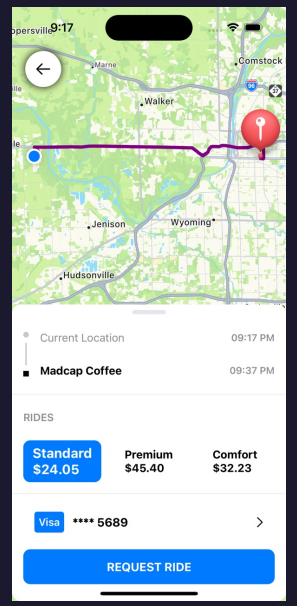
Firebase

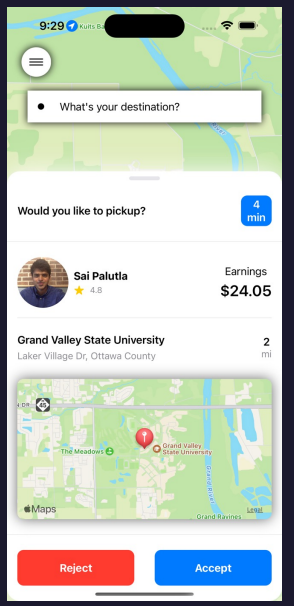
Firebase Firestore

Firebase Authentication









Flow

QuickRide has Apple Maps integration to display user and drivers' locations.

The places API in the Maps SDK is leveraged for location search.

The user can see the calculated path to their destination along with dynamic price.

Drivers can accept or reject trips when a new ride request is received by them.

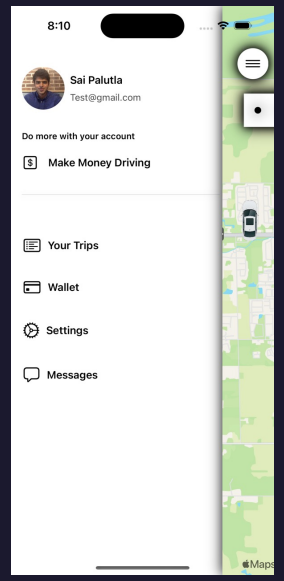
Features

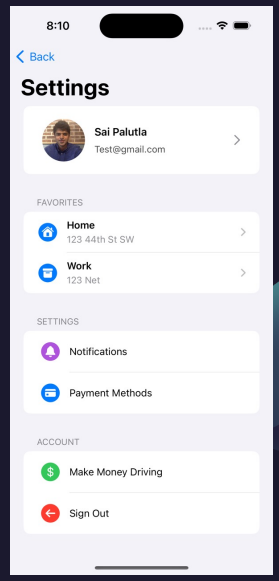
The app incorporates a side menu navigation system which is seamlessly integrated into the app's user interface, providing an intuitive and unobtrusive way to access additional functionalities.

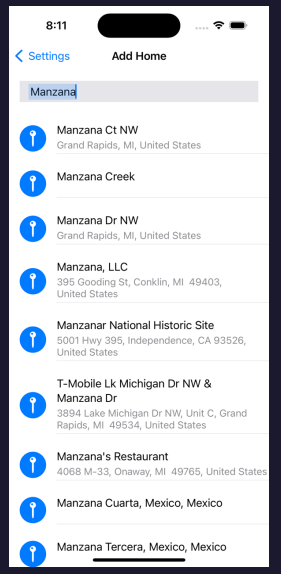
Notable functionality offered in the settings is the ability to save frequently used locations. Users can streamline their ride booking process without entering these addresses every time.

Users can access their ride history to review previous bookings, view and manage their payment methods for secure and effortless transactions

There is also an option to signup for a driver account, which converts a passenger account to driver so that users can start earning.







MVVM Architecture

MVVM is an architectural pattern with Models for data, Views for UI, and ViewModels for app logic.

It separates concerns, promotes testability, and enhances code reusability and scalability through data binding and UI updates because MVVM encourages modularity

For example – Apple Maps can be easily swapped out to Google Maps as the views and view models are loosely coupled