



RIDESHARING APP FOR COLLEGE COMMUNITY

PRESENTATION

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INTRODUCTION

- **Project Overview**

Development of a mobile app designed to facilitate ridesharing within a college community, enabling students, faculty, and staff to easily offer and find rides.

- **Motivation**

Inspired by my personal experiences as an international student, my app addresses the challenge of finding transportation to essential locations such as supermarkets, pharmacies, and restaurants.



MAIN FEATURES

- **User Authentication and Verification**
- **Ride Matching**
- **Rating and Review System**
- **In-App Communication**
- **Map Intergration**



UI MOCKUPS AND DESIGN

- **Sketches Overview**

Initial sketches include concepts for key screens: splash screen, login, home, offer ride, and user profile. These were made in my notebook and then using Figma I made it better for visualization of the navigation flow.

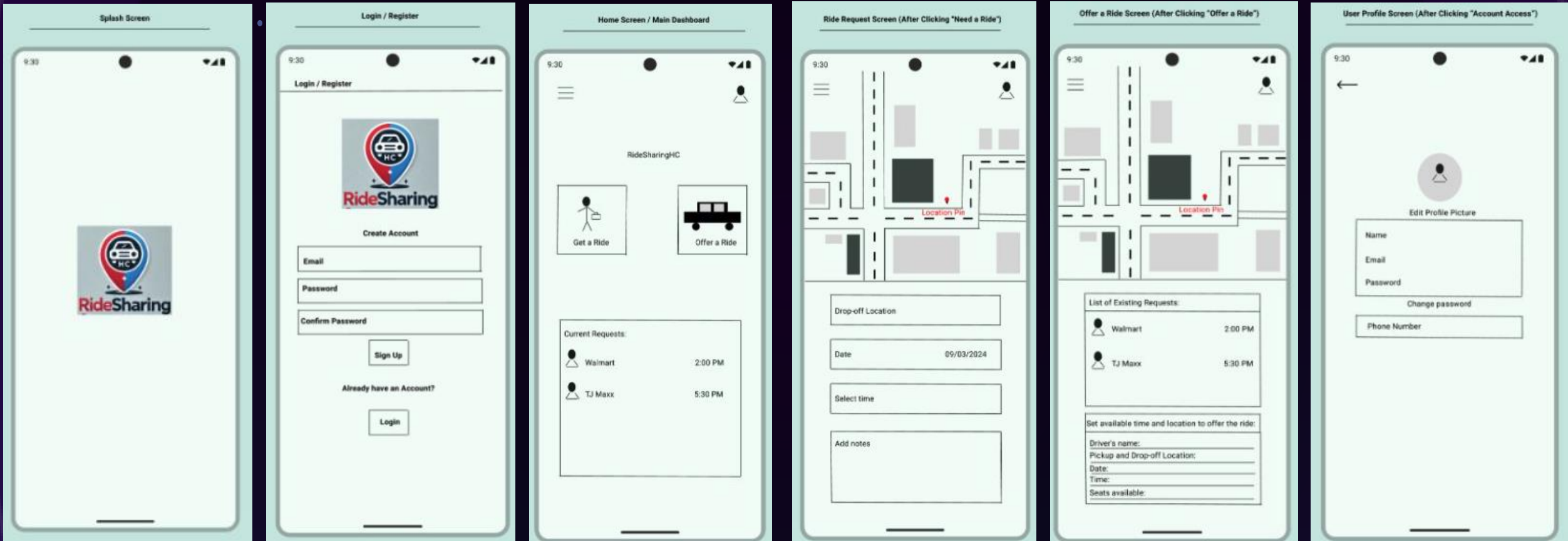
- **User-Centric Design**

UI design focuses on simplicity and functionality, ensuring users can easily navigate the app to offer or request rides.

- **Consistency**

Colors and layout maintain consistency with the college theme, with screens designed to be easily navigable for the user.

UI MOCKUPS AND DESIGN



COMPARISON WITH EXISTING APPS

- Whirl

An open-source ridesharing app focused on privacy and community-specific features but lacks verification with college credentials.

- Sride

Offers ride matching and scheduling but doesn't apply specifically to college communities, unlike my proposed solution.

- Kotlin Uber Clone by EDMT Dev

Provides comprehensive Uber-like functionality but lacks customization for a college environment, such as student verification.

TECHNOLOGIES AND TOOLS

ANDROID SDK



The core development platform for building the Android app, providing necessary tools and libraries.

FIREBASE



Used for authentication, real-time database, and cloud messaging to power backend services.



KOTLIN

The preferred language for Android development, known for its concise syntax and robust performance.



JETPACK COMPOSE

A modern toolkit for building native Android UIs, allowing for a more efficient interface design.

SUMMARY AND NEXT STEPS



Key Benefits

My app simplifies ridesharing for students, enhances transportation options, and fosters a sense of community within the college.

Future Enhancements

Potential improvements include inspiration expanding to other universities, integrating payment systems, and adding more advanced ride-matching algorithms.

THANK YOU

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RideSharingHC App

VISIT: <https://hanover-cs.github.io/HC25-Caio-Montilha-Senior-Project/>