

# A Carpooling App Idea for My School

Nixon Wainaina

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## 1. Overview

**Ridemates** is a web application designed specifically for USIU students to book rides *from campus* with fellow students who own personal cars.

The objective is to simplify transportation while offering students a safer, more affordable, and community-powered commuting alternative. Car owners (students) earn money, and passengers avoid unreliable public transport.

**Goal:** Enable better day-to-day transport for USIU students using a peer-to-peer ride booking model.

## 2. Roles in the App

### Drivers

- USIU students who own vehicles
- Set ride schedules, preferred routes, and car details
- Earn directly via M-Pesa
- View passenger bookings via a personalized calendar

### Passengers

- Search for available rides departing from USIU
- Book rides instantly with route and time details
- Make seamless M-Pesa payments
- View previous rides and rate drivers

## 3. Key Features

- **Campus-Only Access** — Verified student accounts only
- **M-Pesa Integration** — Mobile payments between riders and drivers
- **Ratings & Safety** — Bios, ride preferences, mutual reviews
- **Smart Booking** — Filter by routes, times, and car type

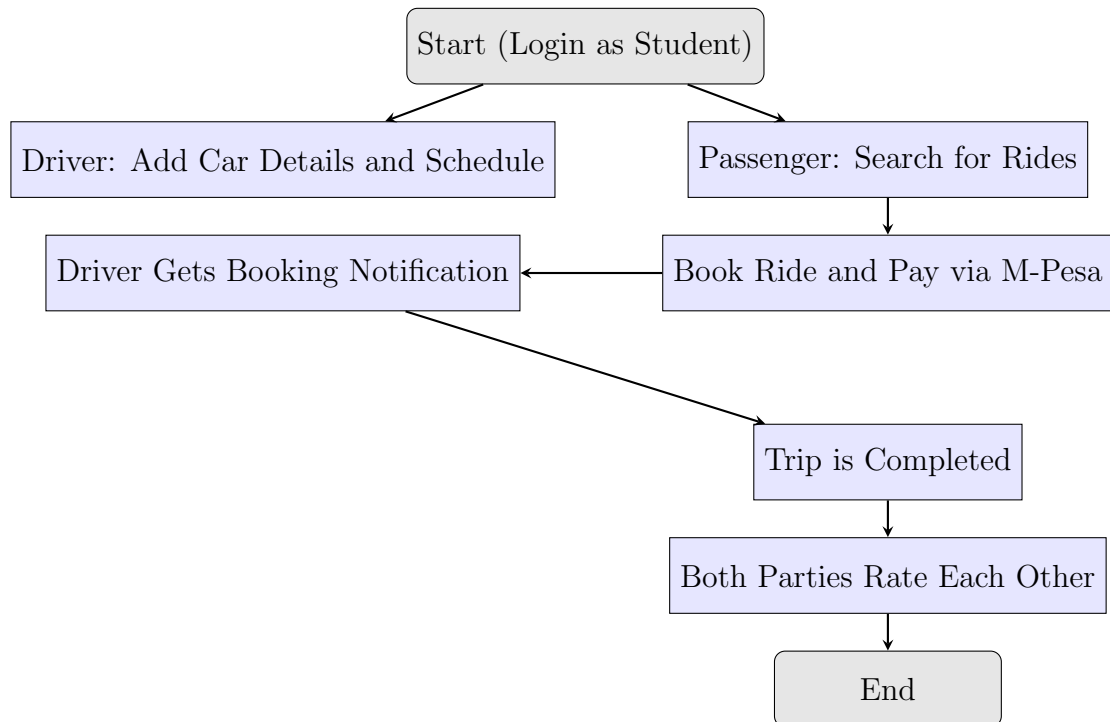
## 4. Main Pages

- **Reserve (Home):** Passenger booking page
- **Become a Driver:** Driver onboarding page
- **Profile:** Ride history, personal info, and ride preferences

## 5. Tech Stack

- **Frontend:** React
- **Backend:** Flask
- **Database:** PostgreSQL
- **Payments:** M-Pesa API

## 6. System Flowchart: How Ridemates Works



## 7. Conclusion

Ridemates reimagines how students travel by turning everyday student drivers into micro-transport providers. It offers a seamless, and efficient powered by technology and community trust.