RideShare Application

Due Date is the Do Date

ENSE 400 – Capstone project

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Team

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Project background & business need/opportunity

- The goal is to address the concern of commuting to and from the university of Regina. As we know there are a large number of students and faculty who depend on public transport for their commute. Using public transport can be very time consuming. In addition to this, there are also some other challenges such as unreliability due to weather conditions, rush hour congestion, and long waiting times in Saskatchewan winters.
- To address these challenges, we plan to develop a web application which will provide the university faculty and students with the opportunity to share the commute with other users, and thus, lessen their carbon footprint.
- How this will work, is that someone with access to a vehicle, can provide the option of ride share with someone who lacks the access, while simultaneously get the opportunity to make a small earning through the rider.

Status description

- Yellow: Slightly off track

- At the current stage we don’t require a server.
- Hifi work in progress
- Architecture development

Feature List - Passenger Features

- Sign up or register via school email (First name, Last name, Email, contact number, Password, Photo, DOB, Gender)
- Alert/notifications
- Fare estimation
- Ride-tracking
- Ratings and reviews of driver
- Varied payment methods
- History of booked rides
- Instant messaging
- Booking interface

Feature List - Driver Features

- Preference (Smoking, Notification, Scent, Music, chat)
- Notifications/alerts
- Reports of drivers
- Optimizing the route and navigation
- Chat support
- Profile and status
- Ride estimation
- Seat numbers
- Vehicle registration (current, Make, model, year)

Feature List - Admin Features

- Managing fares and locations (Driver payouts & Customer payouts)
- User and driver management
- Vehicle and booking management
- Driver's Rides and payoffs management
- Handle ratings and reviews
- System content and discount offers control

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Architecture

Two subnets
- Private (Database – Not accessible by user)
- Public (Web app code, Application server)

AWS EC2 instances – Servers

High availability (Reliable performance with low downtime
Auto scaling (Add more instances as required)
Security (Authentication, access control)

Next up & Responsibilities

- Update Github.
- Update UR Courses Wiki – For vlog#2
- Progress Hifi prototype
- Develop additional diagrams as required.
- Work on flow of the website.
- Meet & Reserarch on comments from mentors (Focus on interface, Map, ease of use)
- Formalize documentation

Thank you

Krupal Patel

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