

Group 19 – Backlog

Date – 27/09/2018

App Development

- Register Login Page
- First Name/ Last Name
- Email & Password
- Setup Social Media login
- App Google location Services
- Vehicle database
- 1 to 8 Seats

Website

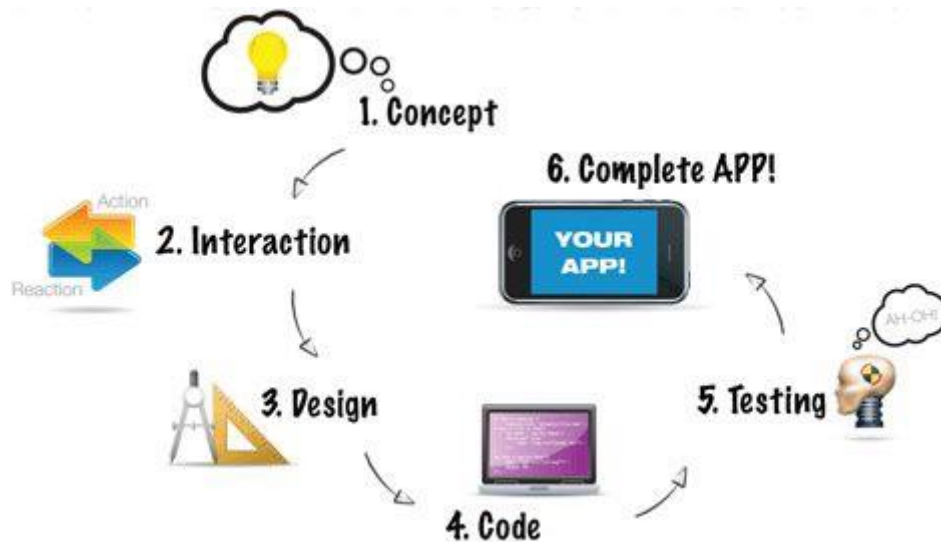
- Database Login Front Page
- Develop on Bootstrap
- Basic visuals and functionality
- Setup up Database with Firebase
- Create Database interface

Date 01/10/2018

Mohammed Alom

Transport AL

This information for our group project and we can decide upon each of the features after discussion



Features for Passenger apps:

1. Registration/login Authentication

- apps should offer social media and email/password signup and login functionality.
- Creating a profile,
- As an additional requirement for drivers, profiles should be verified and approved by the service administration.

2. Profile editing (Optional)

- Passengers should be able to easily edit their own profiles: name, photo, phone number, email, etc.
- The driver app should also include the driver's license and information about the vehicle (manufacturer and year of production, car class, color, license plate number) and its photo.
- Both the driver and the passenger should be able to view each other's profile. With this information, they can recognize each other at the pickup location. This helps reduce anxiety and gives a sense of security.

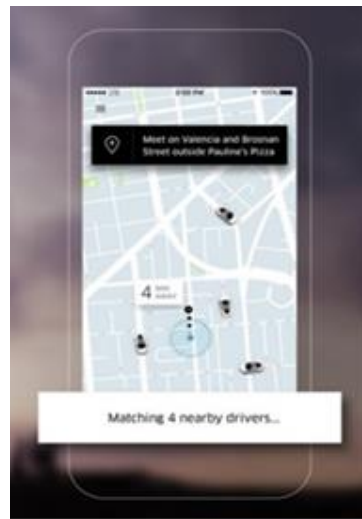
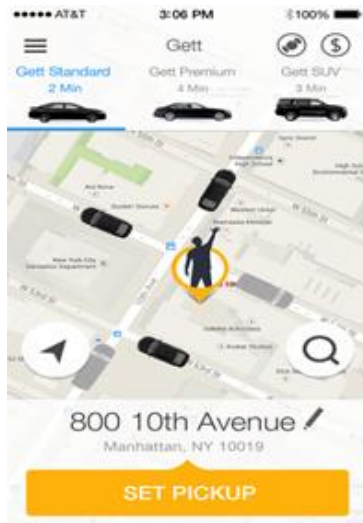
3. Booking Interface

- Matching allows a passenger to automatically connect to the nearest available driver.

It's a complex algorithm which takes into account several factors:

- locations of the passenger and nearby drivers (Uber shows up to 8 drivers),
- drivers' status and their rating, car models, etc.
- The driver has a few seconds to accept the request (Uber gives 15 seconds) before it goes to the next driver.

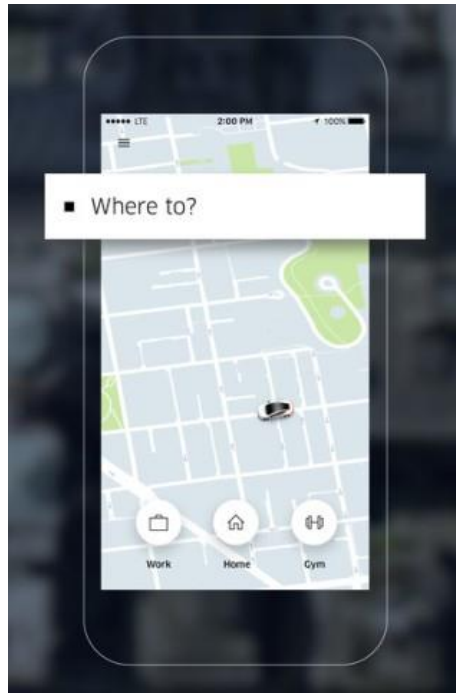
- We could do booking services allow passengers to choose the vehical manually.



(Example of a matching screen in a taxi booking app)

4. Tracking / Navigation

- Vehicle GPS tracking, It allows to identify current locations of passengers and Vehicle,
- draw paths between them, set pickup and drop-off locations,
- track the movement of cars
- calculate the cost of the ride and the ETA (estimated time of arrival).
- All these data sets are sent to the server/Admin panel for further processing



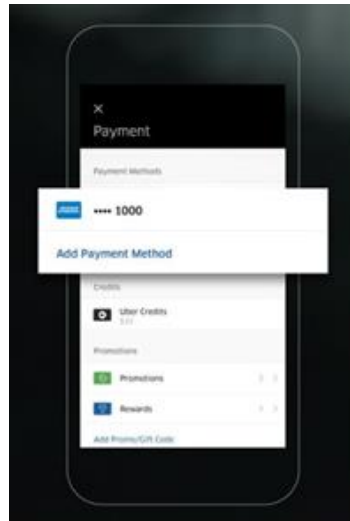
5. Price Calculator

- Both the driver and the passenger should know the estimated fare in advance.
- calculating the actual fare of the trip is usually performed on the server-side/ Admin site.
- Price depends on the following factors
 - the distance between pickup and drop-off locations,
 - cost of fuel, possible discounts, car class,
 - traffic and weather conditions, peak hours etc.

7. Making payments

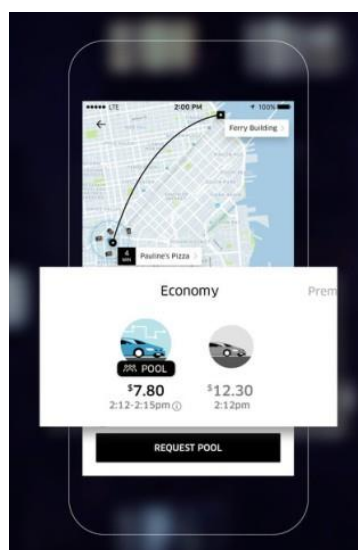
This is how it works within Uber's app:

- Uber has partnered with **Braintree** to securely accept payments within the app.
- All payments are cashless, so when the ride has completed, payment is withdrawn automatically through the payment gateway.
- There are many other online payment providers **like Stripe, Worldpay or Adyen**. They provide robust APIs, that can easily be integrated into mobile apps. All of them are optimized for web, mobile and in-app purchases. They support major credit cards like Visa, MasterCard, American Express and digital wallets like Apple Pay, Walmart Pay, Android Pay and many others.
- Confirmation send to customer either SMS or email payment receipt



6. Notifications/ Push Notification

- Currently most apps use three options to notify users about important events: SMS, push notifications and email.
- Push notifications can be implemented using free utilities provided by platform
 - vendors: Apple Push Notification Service for iOS
 - and **Firebase Cloud Messaging for Android, (We need this one)**
 - or third-party cross-platform utilities like **OneSignal**.
- To implement SMS notifications there're many other similar service providers:
 - Plivo, Nexmo or Sinch.



8. Rating / Review and feedback

- Passengers should be able to rate after the trip is over.

- Vehicles with low ratings will eventually not be able to use the service.
- If a passenger has a low rating, it can be harder for him to get a ride.

-Passengers should also be able to provide feedback on their experience during the trip. This feedback will be shown in the Vehicle profile for others to view.

Analysing the rating of both the demand (passengers) and the supply (drivers) will help you identify strengths and weaknesses of the service and make improvements where needed.

9. Booking and payments history (Optional for future Upgrade)

Passengers should be able to view detailed statistics about previous trips from their profiles: date, time, cost, vehicle/passenger name, car model, pickup and drop-off locations, rating etc.

10. Booking cancellation(Optional)

Passengers should be able to cancel a ride. In the case of a cancellation, a fee may be charged.

Basic features for the Passenger App:

1. Tracking nearby drivers
2. Ability to set the pickup location on the map without typing an address
3. Ability to see relevant info about the vehical: name, photo, contact info, rating, car type, and ETA (estimated time of arrival)
4. Notification upon taxi arrival
5. Selecting car type

Riders should be able to choose between different classes of vehicles (In the case of Uber there are UberX, UberXL, UberSelect and Uber BLACK). Of course, the fares will vary depending on the type of vehicle

Admin panel Site

The admin panel is usually a web-based interface that helps manage the entire service:

manage back-end settings,	transactions,
manage vehicals,	view passengers and vehicles activities,
passengers,	statistics,
requests,	generate reports.

Expanding the functionality in future in the App

Here's a list of other features that could be added later:

- scheduled rides
- discounts and free rides
- destination filter for vehicles
- in-app chat
- voice-driven instructions
- insurance coverage
- multi-language support
- promo codes
- gamification