Submission Instructions

1. After you've completed all the sections, download this document as a PDF [File → Download as PDF]
2. Create a new GitHub repo for the capstone. Name it "**Capstone Project**"
3. Add this document to your repo. Make sure it's named "**Capstone_Stage1.pdf**"

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ceeride

Description

The app would be able to show and compare the information provided by cab services. Initially Uber and Lyft api will be used, and later ola cabs api will also be used.

Everyone wants to get a cheap ride, two of the most popular and almost identical services are provided by uber and lyft. But it’s tough to compare them in terms of cost and time of arrival. This app would provide a comparison and help to book a cab which the user prefers.

Intended User

This app is for users who use cab services like uber, lyft , ola etc.

Features

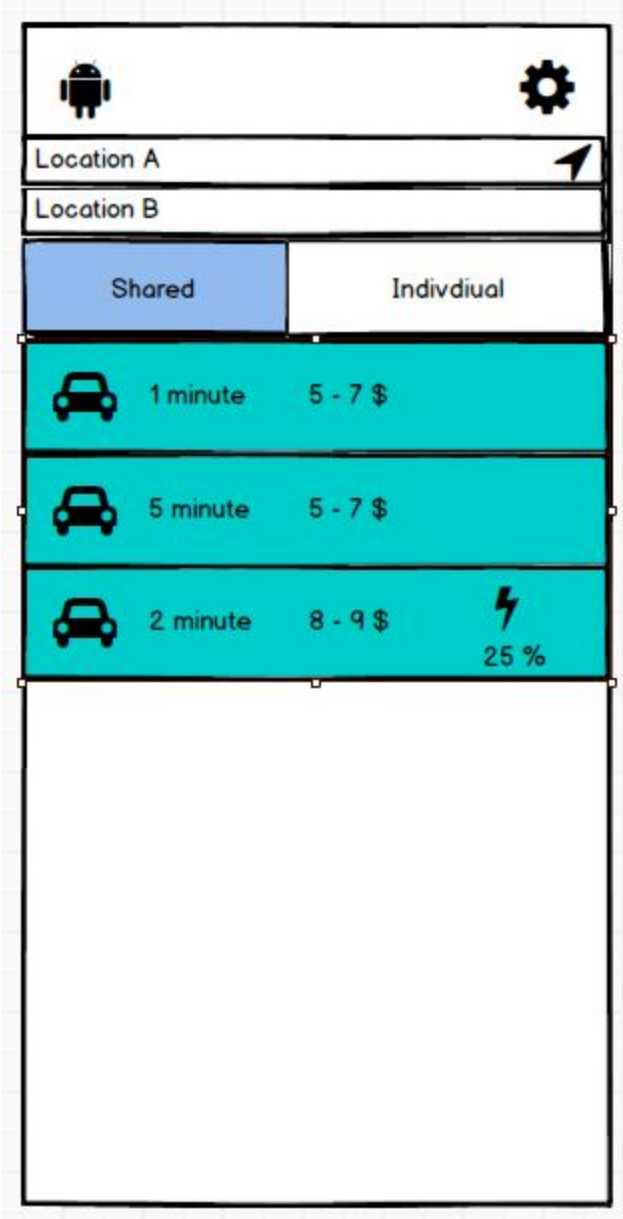
- Provide realtime information about arrival time.
- Compare the cost.
- Will have google maps integrated to show the locations.
- Save preferred locations.

User Interface Mocks

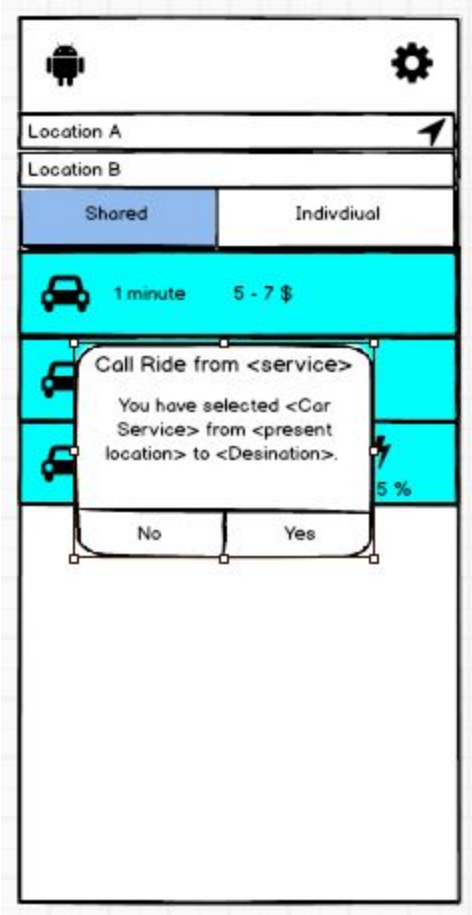
1. **Main Page**

Enter Pick Up location
Enter Destination
Get Ride Options

2. Rates Details:



3. Call Ride


Location A
Location B
Shared
Indivdiual
1 minute
5 - 7 $
Call Ride from <service>
You have selected <Car Service> from <present location> to <Desination>.
No
Yes
5 %

4. Settings

Key Considerations

How will your app handle data persistence?

The data would be saved/retrieved by using Parse api, this way it can be shown in a web app later.

Describe any corner cases in the UX.

- The app should call the api's in the background, that is it should not be in the background thread.
- At any time, there is a possibility that an api doesn't respond, the user should know about that.

- The user can change his mind anytime about the destination, it should be easy to change.
- The destination and source would again be retrieved by using google api, so if at any point there is no network connection , the user should be able to see that.

Describe any libraries you'll be using and share your reasoning for including them.

- Parse Api, used to save data : The data can be used later to be shown on a web-app if the user agrees to make an account.
- Butter knife : It helps in easy data manipulations.
- Other API's:
    - Uber Api , Lyft api : To get the time and cost information.
    - Google map api : To represent the source and destination information.

Next Steps: Required Tasks

The following are the required tasks:

Task 1: Project Setup

- Get api key for parse, uber, google maps, lyft
- Configure butter knife library
- Configure main activity

Task 2: Connect API's

- Write code to connect to google maps.
- Write code to connect to cab service api (should be extendable), so that new api's for different cab service could be added easily.

Task 2: Implement main activity

- The main activity should call the google maps api to get details about the present location.

Task 3: Implement UI for the main activity

- The UI for the main activity should show the map, with the present location marked. Implement text boxes with auto complete for pickup and drop location.

Task 4: Implement CabListActivity:

- According to the pick up location and destination, cab list activity should retrieve information from the api's in the background thread.

Task 5: Implement CabListActivity UI:

- It should populate the list of cabs with their logo's, cost and duration.
- There should be multiple windows, to select between share ride and individual ride.

Task 6: Implement Settings:

- The following are the preferrence user can store :
    - Home address
    - work address
    - Cab preference : Uber/lyft or some other
    - Ride preference : Share or individual

Task 7. Implement Ride Activity:

- When the user has selected the ride, the app will open the cab's app in another activity.

Task 8: Paid/Free:

- Implement paid and free flavours for the app.

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