How to Use this Template
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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**"

GitHub Username: gordonyoon

When To Ride

Description

Stay informed. Save your favorite locations and keep track of the surge rates and prices of a ride with Uber! Enter tracking mode to show an updating notification that alerts users when surge pricing changes.

When To Ride solves two major issues:
1. Unexpectedly high surge prices are...well, unexpected
2. Regularly visited locations are no different than any other

Intended User

When To Ride is intended for Uber users who want to keep track of surge rates and have easy access to their favorite locations.

Features

- Save your favorite locations
- Provide a map for you to easily create new locations
- Transparently display surge rates and estimated costs
- Call an Uber from within the app
- Show a notification when in tracking mode

User Interface Mocks

These can be created by hand (take a photo of your drawings and insert them in this flow), or using a program like Photoshop or Balsamiq.
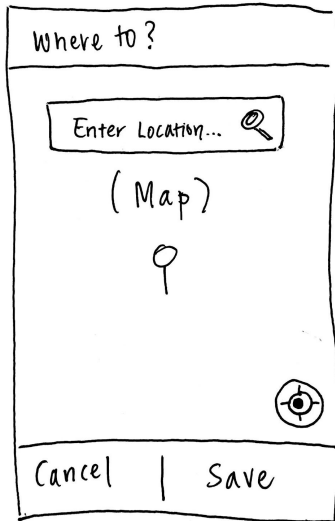
Screen 1
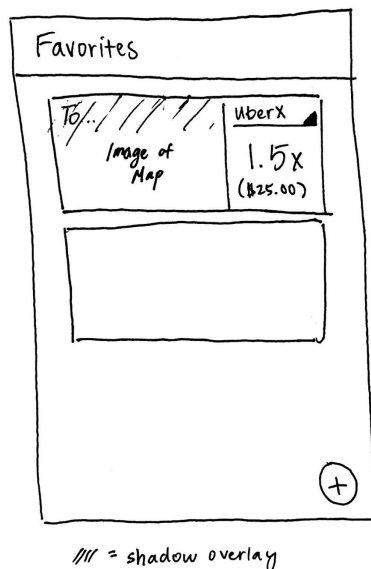
A list of saved locations to track or call Ubers to. Each item displays the surge price or the selected Uber service. (e.g., UberX, Pool, etc.) Swipe a favorite to the left to call an Uber to that
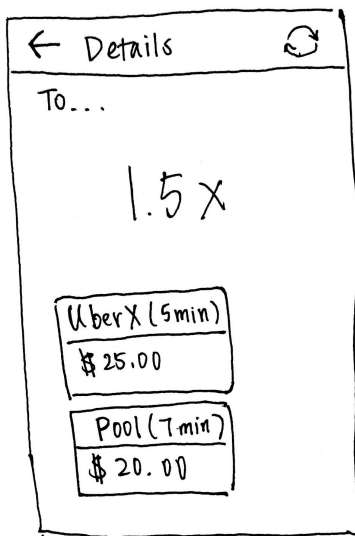
location. Swipe to the right to open the Details page. Long press to delete favorites. When an Uber is called, the native Uber App will open.

Screen 2

When adding a new location, the "Where to?" page is displayed. It is predominantly a map that enables the user to select a location.
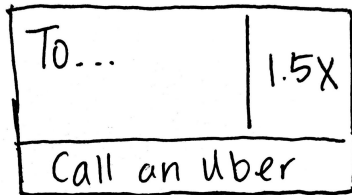
Screen 3

The Details page shows the price of multiple services simultaneously. It also enables Tracking Mode which displays the notification.

Screen 4

Notification

To...   1.5X

Call an Uber

The notification displays the surge price and let's the user call an Uber directly from the notification.

Key Considerations

How will your app handle data persistence?

When To Ride will have an internal database and a content provider to store saved locations and other relevant information.

Describe any corner cases in the UX.

The back button can be used to return to favorites from any page. All other pages can be accessed from the favorites page.

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

- Fresco for image loading
- StorIO for data persistence
- Retrofit for working with the Uber API

Next Steps: Required Tasks

This is the section where you can take the main features of your app (declared above) and decompose them into tangible technical tasks that you can complete incrementally until you have a finished app.

Task 1: Project Setup

Add the following lines to your `build.gradle` file:

```
dependencies {
  // your app's other dependencies
  compile 'com.facebook.fresco:fresco:0.7.0+'
  compile 'com.squareup.retrofit:retrofit:2.0.0-beta1'
  compile 'com.pushtorefresh.storio:sqlite:1.4.0'
  compile 'com.pushtorefresh.storio:content-resolver:1.4.0'
  compile 'com.pushtorefresh.storio:sqlite-annotations:1.4.0'
  apt 'com.pushtorefresh.storio:sqlite-annotations-processor:1.4.0'
  com.google.android.gms:play-services-maps:7.8.0
}
```

Follow directions here to get a Google Maps API key for the project.

Register for the Uber API here.

Task 2: Implement UI for Each Activity and Fragment

- Build the UI for the Favorites Activity
    - Build the UI for each list item
- Build the UI for Where To? Activity
- Build the UI for the Details Activity
- Build the UI for the Notification

Task 3: Query the Uber API

- Use Retrofit to process the Uber API requests
    - Create necessary POJOs

Refer to the docs for tutorials on using the API.

Task 4: Persist Data

- Store relevant information for favorites in a sqlite database
- Provide methods to delete, modify and add favorites

Refer to [the github page](#) for samples of usage.

Task 5: Include Google Maps

- Create the Where To? Activity logic
- Capture images of the map to store with favorites
- Save the selected location

Task 6: Create the Details Page & Tracking Mode

- Allow the user to select different Uber services that will be reflected in the favorites page
- Enter "Tracking Mode"
  - start the notification here

Corner Case: if the notification is dismissed, When To Ride will navigate back to the favorites page automatically.

Add as many tasks as you need to complete your app.

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