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Submission Instructions

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GitHub Username: LukeLinXu

EASYTTC

Description

TTC (Toronto Transit Commision) is our main public transportation in Toronto. This app can help user get live information through Android smartphone. Like arrive prediction, arrive alert. User can save those favorite route and check the status of routes in widget through one simple click.

Intended User

For those people transit by TTC

Features

List the main features of your app. For example:

- Widget to show routes status
- Google map to show current surrounding stops
- Alarm to remind user about specific route arrival

User Interface Mocks

MainActivity: using a tablayout which contains favorite fragment, surrounding fragment, all routes fragment

Favorite Fragment: contains a list of favorite items, which should be a pair of route and stop, it should show the following arrive time

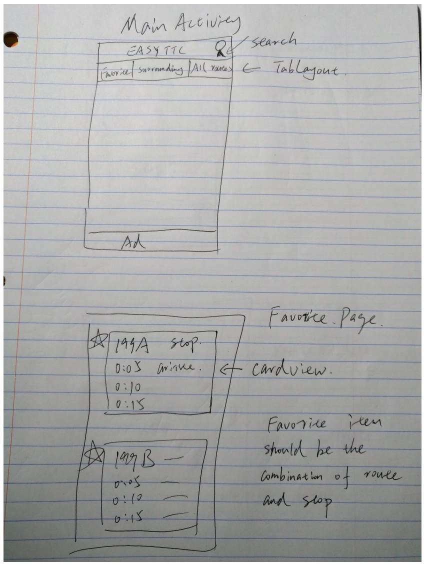
Surrounding Fragment: show a list of surrounding stops, it also can lead to a map view to show those stops, each stop can lead to stop detail

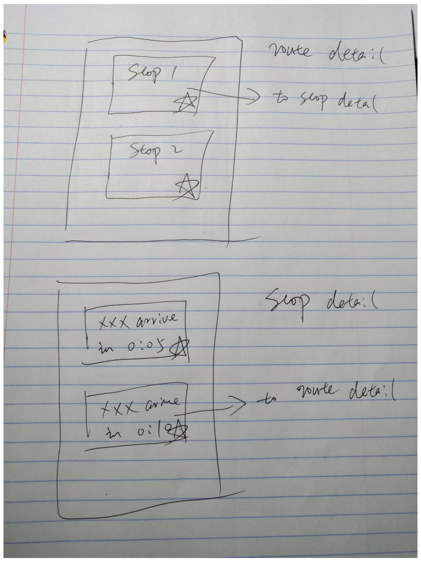
All routes fragment: show a list of TTC routes sort by route number, each one can lead to route detail

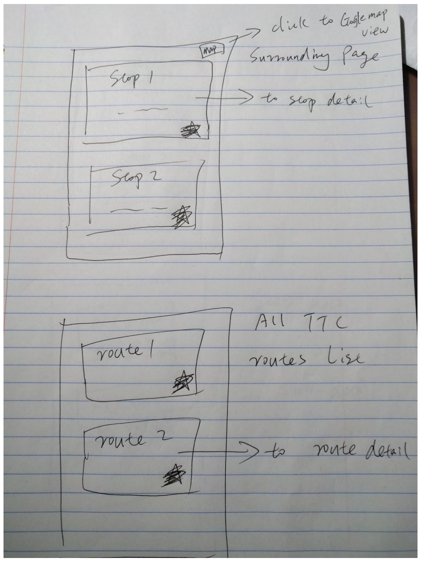
Route detail page: show a list of stops this route will pass by, it has a favorite button, which can add to favorite page

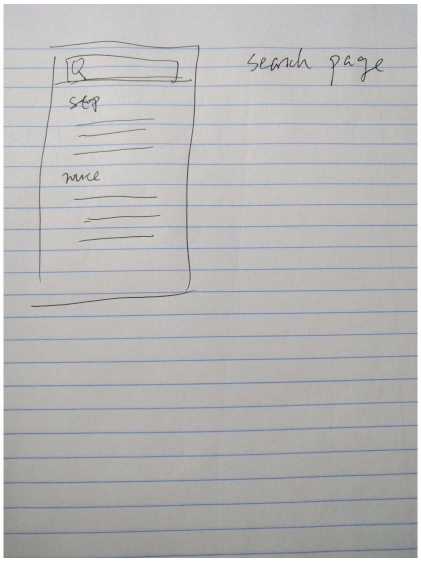
Stop detail page: show a list of routes coming to this stop, it has a favorite button, which can add to favorite page

Search page: search for stop name or route name.









Key Considerations

How will your app handle data persistence?

Using Realm to handle sqlite operation.

Describe any corner cases in the UX.

For example, how does the user return to a Now Playing screen in a media player if they hit the back button?

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

Reaml: for sqlite operation
Retrofit: for http request
Rxjava: make aync code more beautiful

Describe how you will implement Google Play Services.

Google ad: show at the bottom of application for free version, it will be removed for paid version
Google map: show surrounding routes stops, show location of specific vehicle.

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

You may want to list the subtasks. For example:

- Try all the api from opendata of Toronto
- Integrate all api with retrofit.

Task 2: Implement UI for Each Activity and Fragment

- Build UI for MainActivity
- Build UI for favorite page
- Build UI for surrounding page
- Build UI for all routes page
- Build UI for route detail page
- Build UI for stop detail page
- Build UI for search page

Task 3: Your Next Task

- Register Google map api, Ad api

- Build UI for Google map
- Build UI for Google Ad

Task 4: Build widget

- Build widge according to favorite page

Task 5: Test

- Test

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

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