
Description

Intended User

Features

User Interface Mocks

Screen 1

Screen 2

Screen 3

Key Considerations

How will your app handle data persistence?

Describe any corner cases in the UX.

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

Describe how you will implement Google Play Services.

Next Steps: Required Tasks

Task 1: Project Setup

Task 2: Implement UI for Each Activity and Fragment

Task 3: Implement Data Models and Content Provider

Task 4: Get-Real time data using CUMTD API

Task 5: Implement location function

Task 6: Add ads

Task 7: Others

GitHub Username: johnnyjinjing

CUTransit

Description

CUTransit provides real-time MTD bus information in Champaign-Urbana area. You will never miss your bus again!

Intended User

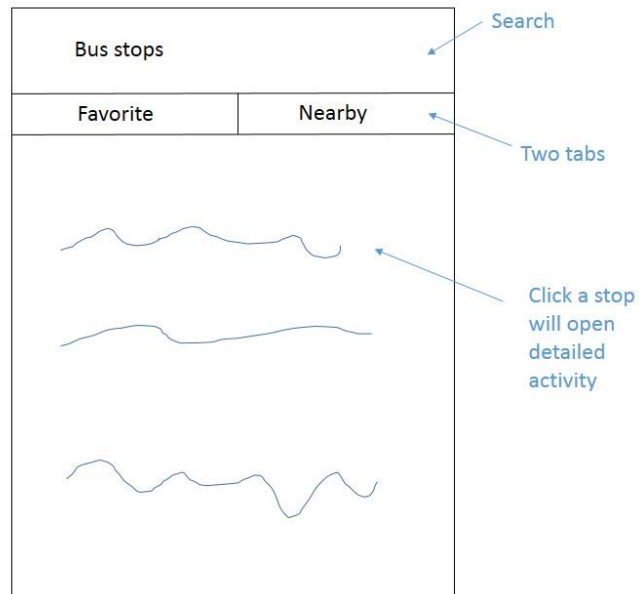
People live in Champaign-Urbana who want to check bus information.

Features

- Real-time bus tracker
- Nearby stops by location
- Favorite stops

User Interface Mocks

Screen 1



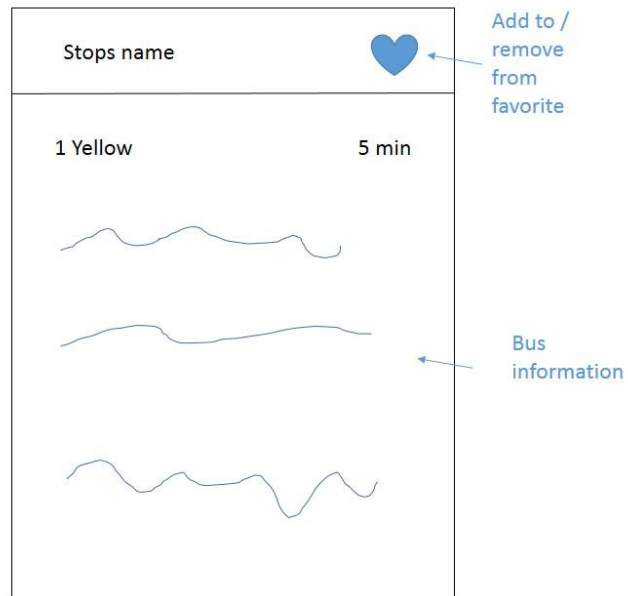
Main screen:

Two tabs showing favorite stops and nearby stops

Click on a stop launch a detailed activity showing bus info at that stop

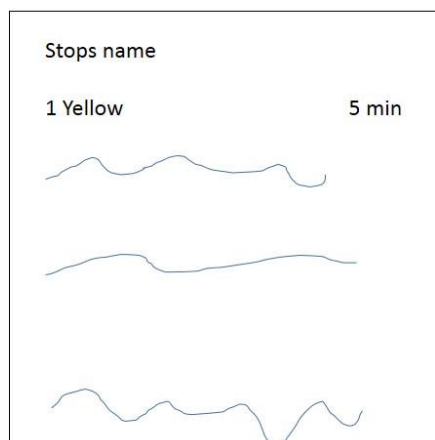
Can search bus stop

Screen 2



Detailed Stop view:
Show bus info at this stop
Can add or remove this stop to/from favorites

Screen 3



2*2 widget:

Show bus info at one stop
Updated once a minute

Key Considerations

How will your app handle data persistence?

Request stop info if needed
Stop info will be stored in local database
Use content provider to get stored station data
Use CUMTD API to fetch real time bus data (Android Asynchronous Http Client)

Describe any corner cases in the UX.

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

Android Design: material design
Google Play Service

Describe how you will implement Google Play Services.

Location: locating
Admob : add ads

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

Update Android Studio
Update SDK
Configure libraries
Setup Gradle dependencies

Task 2: Implement UI for Each Activity and Fragment

- Build UI for main screen
- Build UI for detailed screen
- Build UI for settings
- Add navigation between different activities
- Build UI for tablet

Task 3: Implement Data Models and Content Provider

- Create data model classes
- Database setup
- Add loaders and adapters
- Test

Task 4: Get-Real time data using CUMTD API

- Use Android Asynchronous Http Client (3rd party API) to call CUMTD API to fetch real-time data
- Handle error cases (no data, etc.)

Task 5: Implement location function

Task 6: Add ads

Task 7: Others

- Widget
- Accessibility
- RTL layout