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CUTransit

Description

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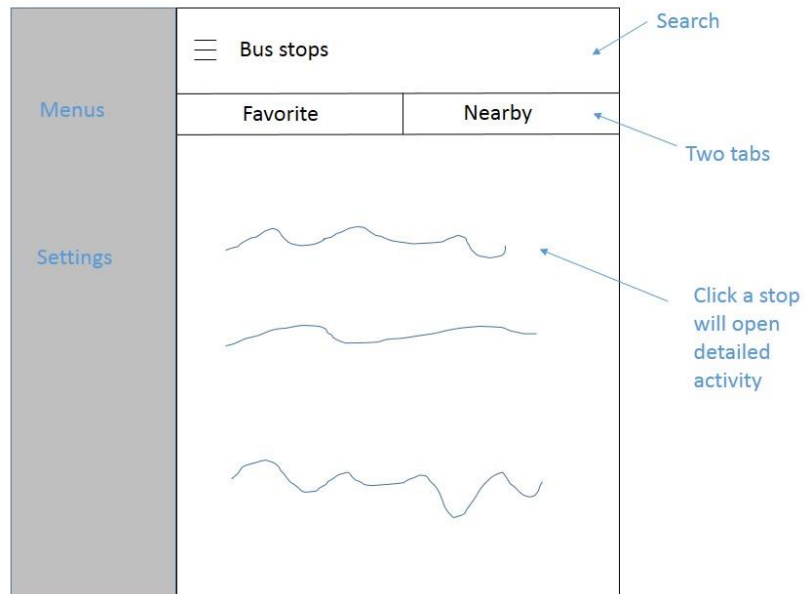
Intended User

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

Features

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

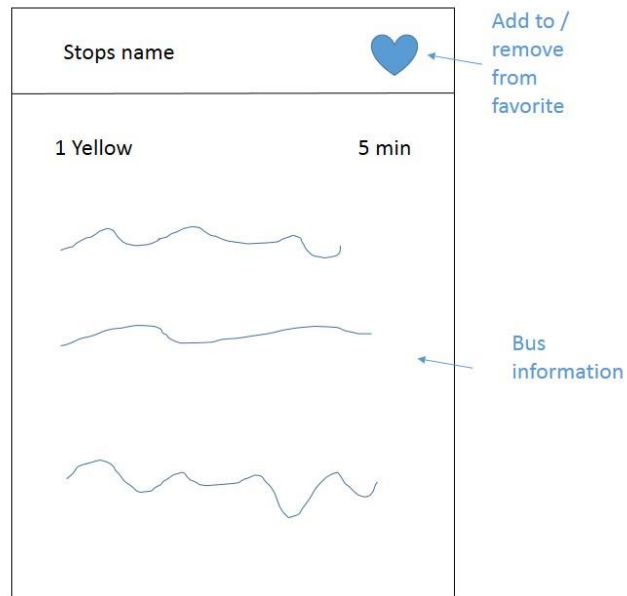# User Interface Mocks

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
Side menu including settings and more upcoming functionality

Screen 2

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

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 data

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

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