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# MyCondoBus

## Description

Brazil has large cities and a not well developed public transport system. For that reason some condominiums (condos) hires private bus companies to serve a better and safer service in terms of common transportation in the cities.

Basically a person that lives in one of those condos pays an amount per month to use it. Usually is included in the condo fees. Each dweller has a document id that must be shown to the bus driver before be on board.

The goal of this app is offer to those condos a way to help the users to find the closest bus stop based on theirs location and destination.

## Intended User

Users that are living in condos that offers a private bus service to theirs dwellers.

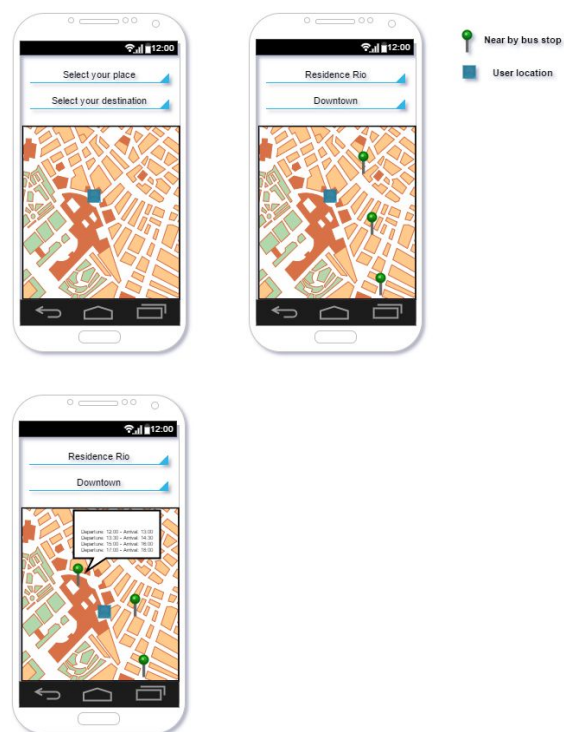
## Features

The main features for this app are:

- Show the closest bus stop of the condo bus.
- Show the departure times of the destination line and estimated times of arrival on the last stop.

## User Interface Mocks

### Screen 1



On this screen the user will be able to select the departure bus stop of reference and the arrival bus stop of reference. Once both information are informed than on the map will be shown the closest bus stops based on the user location and the departure and arrival estimated times. The departure and arrival times will be fetched by a web service that will be explained in the further sections.

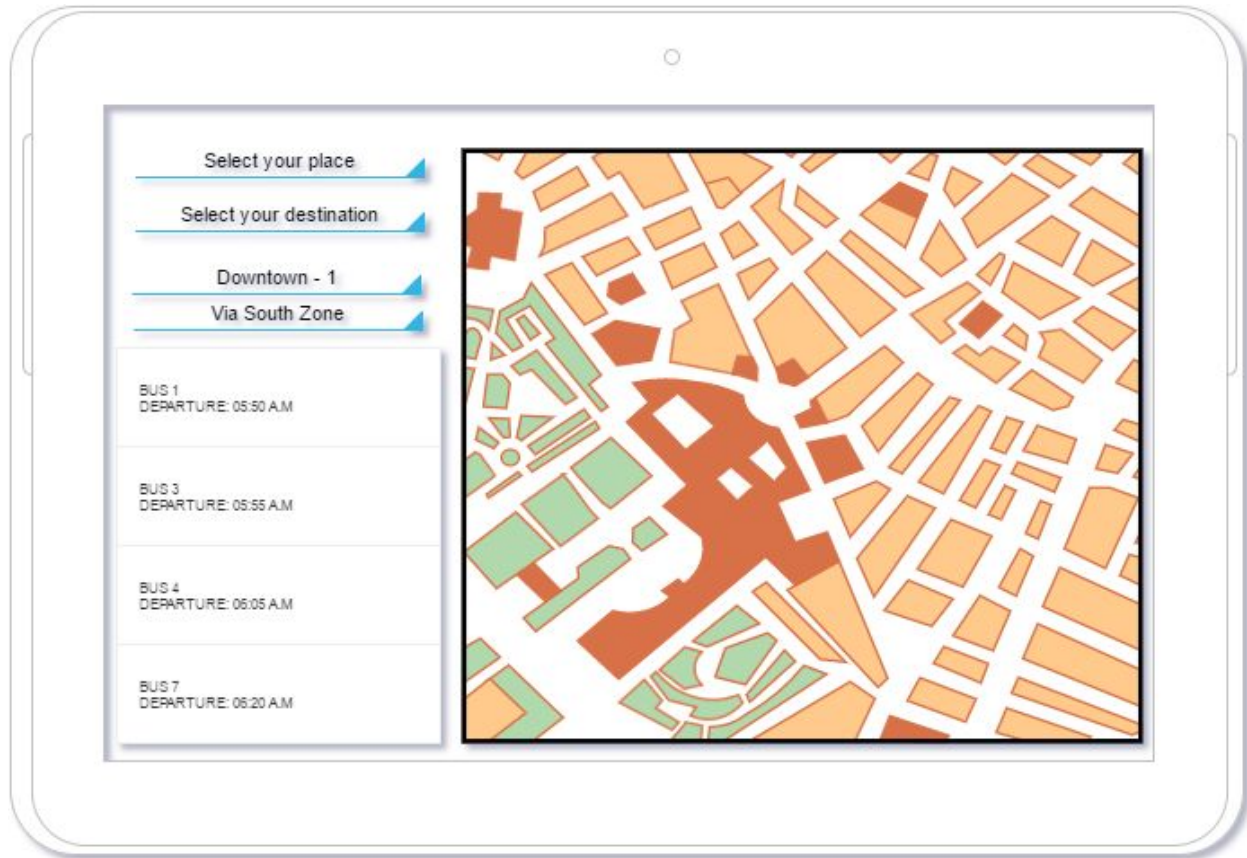
## Screen 2



This screen provides the time schedule based on the destination and path of the bus showing the departure time of each one.

## Screen 3

The tablet view of the Screen 1 and 2



## Key Considerations

How will your app handle data persistence?

The app will have a content provider to save the info need locally.

The first load of data will come from an web service and saved locally. The user could update the info manually using a menu to synchronize with the online information anytime he or she wants.

Describe any corner cases in the UX.

A right corner menu will be used to navigate between the two screens.

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

The following libraries will be used:

- Location Services
- Google Maps Android
- External Web Service developed in .Net that will feed the ContentProvider.
- Fused Location Provider (to analyse the wi-fi; network and satellite location)

## Next Steps: Required Tasks

### Task 1: Project Setup

Create a Google ApiClient

Set up the credentials to the app access the google apis.

Use of the following Apis:

Location Services

Edit build.gradle:

Include: compile 'com.google.com.gms: play-services:7+'

Edit Android Manifest:

Include the:

android.permission.ACCESS\_FINE\_LOCATION

android.permission.INTERNET

android.permission.ACCESS\_NETWORK\_STATE

android.permission.ACCESS\_WIFI\_STATE

### Task 2: Implement UI for Each Activity and Fragment

List the subtasks. For example:

- Create the layout of the Screen 1
- Create the layout of the Screen 2
- Build UI for MainActivity - (Screen 1)
- Build UI for BusScheduleActivity (Screen 2)

- Extend the activities with the ConnectionCallbacks
- Extend the activities with the OnConnectionFailedListener

### **Task 3: Error Handling and persistence data**

Handling Error cases:

- OnConnectionFailed;
- OnConnectionSuspended

Handling connection statuses:

- OnConnected
- OnLocationChanged

Create the Content Provider with the schema tables.

### **Task 3: Widget**

Widget will be created to show the next departure schedule time of the buses.