Mobile App Development
In Class Assignment 10

Basic Instructions:

1. In every file submitted you MUST place the following comments:
   a. Assignment #.
   b. File Name.
   c. Full name of the student.
2. Each group is required to submit the assignment on Canvas.
3. Please download the support files which include a Java project to be used for this assignment.
4. **Submit Codes:**
   a. Zip all the project folder to be submitted on canvas.
5. Submission details:
   a. The file name is very important and should follow the following format: **InClass10.zip**
   b. You should submit the assignment through Canvas: Submit the zip file.
6. **Failure to follow the above instructions will result in point deductions.**

In Class 10 (100 Points)

In this assignment you will interface Google Maps into your app, and include poly lines and markers in the app.

Part 1: (20 Points)

1. Create an activity and include Google maps in this activity. Follow all the instructions indicated in the Google Maps documentation.

Part 2: (80 Points)

1. You are provided with a “trip.json” file, which should be added to your project as follows:
   a) Create an “asset” folder under the “app/src/main” folder.
   b) Copy the “trip.json” file into the “asset” folder.
2. After the Map is loaded into the activity, your code should read and parse the “trip.json” file, (you can use the Gson library to parse the json file).
3. The trip points loaded from the “trip.json” file should be plotted on the Google map as follows:
   a) The trip should be displayed using the “Polyline” shape.
   b) The start and end points of the trip should be indicated with markers
4. After plotting the trip information the map should be centered and zoomed to display all the trip points. Also map should be auto zoomed to include all the trip points in the map’s bounding box. Check CameraUpdateFactory class at the following link
   https://developers.google.com/android/reference/com/google/android/gms/maps/CameraUpdateFactory

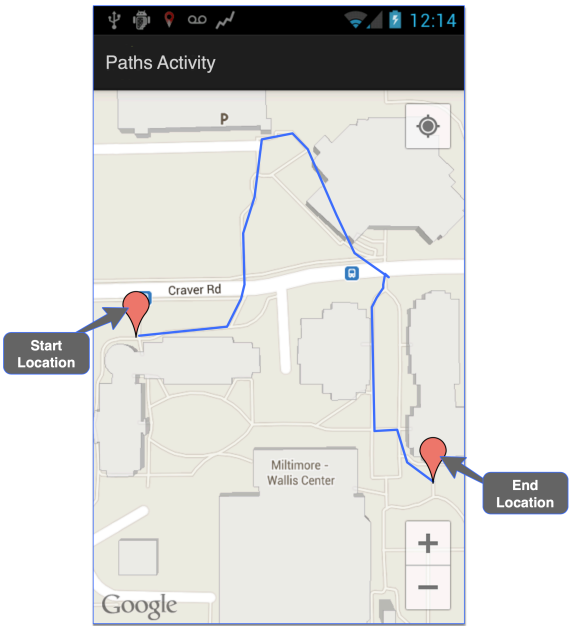

Figure 1, App Wireframe