

ITIS/CS 5180 Mobile Application Development
In Class Assignment 12

Basic Instructions:

1. In every file submitted you MUST place the following comments:
 - a. Assignment #.
 - b. File Name.
 - c. Full name of each person in your group.
2. Each team is required to submit the assignment on Canvas.
3. Please download the support files provided with this assignment and use them when implementing your project.
4. Submission details:
 - a. Compress the contents of your project folder. The file name is very important and should follow the following format: **InClass12_Group#.zip**
 - b. Only one group member is required to submit on behalf of the whole group.
 - c. You should submit the assignment through Canvas: Submit the zip file.
5. The required Android Virtual Device (AVD) should have **minimum SDK version set to 26 and target SDK at 28+**.
6. **Failure to follow the above instructions will result in point deductions.**

In Class Assignment 12 (100 points)

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

Please complete the following tasks:

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>

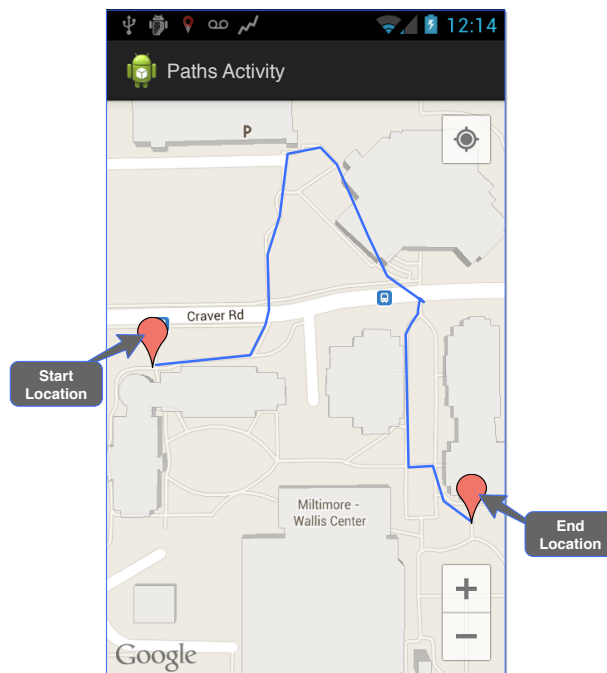


Figure 1, App Wireframe