

ITIS/ITCS 4180/5180 Mobile Application Development
In Class Assignment 11

Basic Instructions:

1. In every file submitted you **MUST** place the following comments:
 - a. Assignment #.
 - b. File Name.
 - c. Full name of all students in your group.
2. Each group should submit only one assignment. Only the group leader is supposed to submit the assignment on behalf of all the other group members.
3. Please download the support files provided with this assignment and use them when implementing your project.
4. Export your Android project as follows:
 - a. From eclipse, choose "*Export...*" from the File menu.
 - b. From the Export window, choose *General* then *File System*. Click *Next*.
 - c. Make sure that your Android project for this assignment is selected. Make sure that all of its subfolders are also selected.
 - d. Choose the location you want to save the exported project directory to. For example, your *Desktop* or *Documents* folder.
 - e. When exporting make sure you select *Create directory structure for files*.
 - f. Click Finish, and then go to the directory you exported the project to. Make sure the exported directory contains all necessary files, such as the .java and resource files.
5. Submission details:
 - a. When you submit the assignment, compress your exported Android project into a single zip file. The format of compressed file name is InClassAssignment#.zip
 - b. You should submit the assignment through Moodle: Submit the zip file.
- 6. Failure to follow the above instructions will result in point deductions.**

In Class Assignment 10 (100 Points)

In this assignment you will draw jogging trip paths on Google map using polylines and markers. The application is composed of one activity, namely **JogTripActivity**.

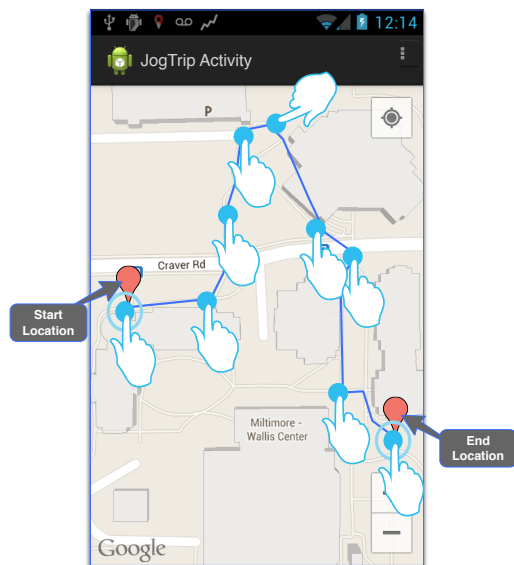


Figure 1, Application User Interface

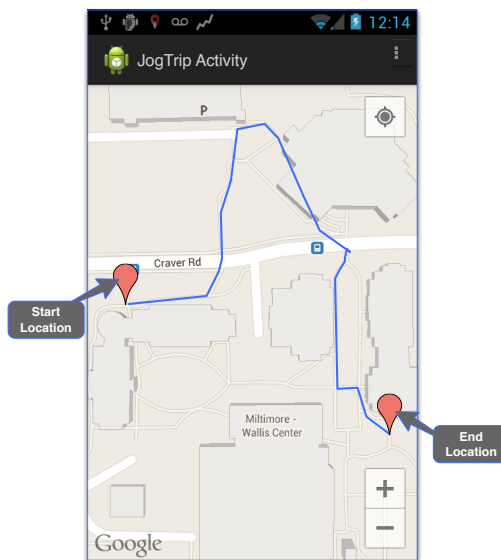
JogTrip Activity (100 Points)

This activity should display a Google Map Fragment. User should be able to build the trip by tapping (clicking) the map. Long click with start/ end the trip while click will add location points in between. The jog trip's locations should be displayed on the Google Map. The implementation requirements include:

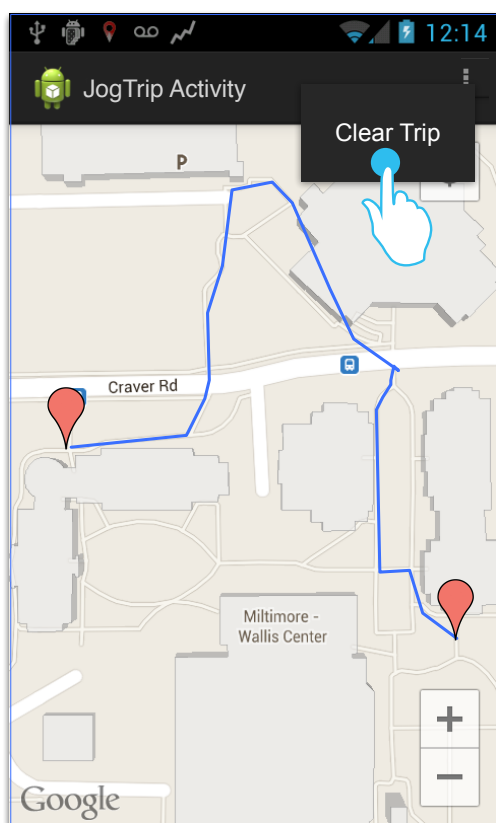
1. By default set the map to your current location. Recommended zoom level 18.
2. Using PolyLine display the jog trail on the map. For more information about PolyLine: <https://developers.google.com/maps/documentation/android/shapes>
3. A marker should be used to display only the start and end locations on the map.
4. The map should be centered and zoomed to display all the jog points as shown in Figure 2. For more information go to <http://developer.android.com/reference/com/google/android/gms/maps/CameraUpdateFactory.html>
5. Pressing Clear Trip menu item should clear the line drawn on the map.



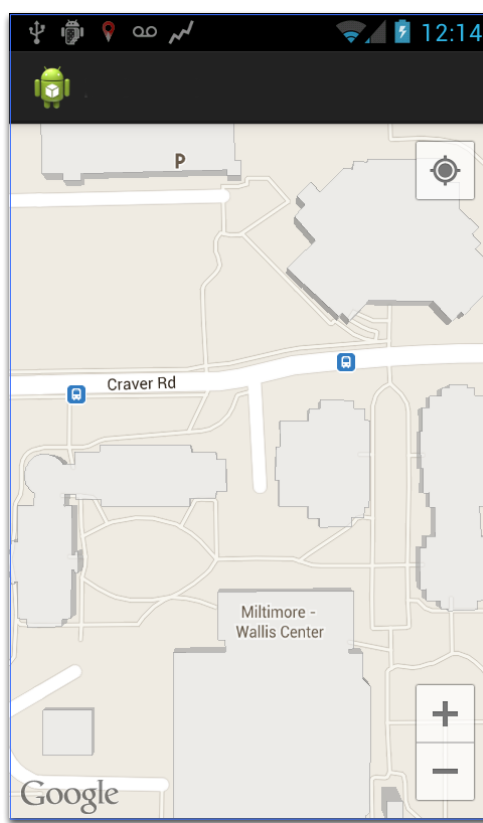
(a) Building the trip



(b) Polyline drawn



(c) Clear Trip Menu item



(d) After clearing the map

Figure 2, Building Trip workflow