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Lab Assignment 5 – Graded 10%   🔍 Discover & Learn

The purpose of this lab assignment is to:

- Develop Android applications with Location Service and Map-based activities

Be sure to read the following general instructions carefully.

This assignment MUST be completed in pairs following pair programming rules: Pair Programming. (http://www.extremeprogramming.org/rules/pair.html)

Please note, pair programming is only happening via virtual collaboration, not in person as described in the rules.

You should use the full names of both team members.

- You will have to upload the completed assignment on eCentennial through the assignment link under Assessments.

Due Date

Due end of Week 11, Sunday, 11:59 PM ET

Assessment Information

Total Mark: 30 marks

10% of the overall grade

Exercises

Exercise 1

Write an Android app that allows users to locate various restaurants in the city of Toronto. Your interface should display a list of available restaurants and their address.

The application should display the **map and satellite map** of the restaurant whenever the user selects the name on the list.

1. Make sure to classify restaurants according to their **cuisine**. For example, Italian, Greek, Chinese, Indian, etc. The first activity shows a list of different cuisines. **[10 marks]**
2. Other activities show the list of restaurants belonging to the selected cuisine. **[10 marks]**
3. When the user selects a restaurant, another activity shows the map with a marker pointing to the selected restaurant. **[10 marks]**

Provide a friendly and nice look and feel UI. Use ListView controls for displaying the list of cuisines and restaurants. Use styles to create nice displays of lists.

Android Workspace / Project Naming Rules

You must name your Android Studio workspace and project according to the following rule:

yourfullname_COMP304SectionNumber_Labnumber_ExerciseNumber.

Example: **johnsmith_COMP304Sec001_Lab5_Ex1 a**nd each subsequent exercise should be added as **JohnSmith_COMP304Sec001_Lab5_Ex2** and so on.

Submission - Assignment Folder

Submit your projects as **zip files** that are named according to the following rule:

yourfullname_COMP304SectionNumber_Labnumber_ExerciseNumber.zip

Example: **johnsmith_COMP304Sec001_Lab5_Ex1.zip**

Upload your zipped assignment file using the assignment link in e-Centennial: **Lab Assignment 5 - Week 11 (/d2l/common/dialogs/quickLink/quickLink.d2l?ou=658923&type=dropbox&rcode=CENCOL-2912623)**

Evaluation table	
Activities	**Percentage of the total mark**
Functionalities • All working • Proper naming of activities, variables, and methods. • Provide comments. • Provide an explanation when asked during the demonstration of the app	75%
UI friendliness: • proper layout, controls, styles, themes, graphics and images	15%
Declaring resources in proper resource files	5%
Innovative features/ effective way of coding	5% (for example, using: [hyperlink]}
Total	100%

References

Textbook, online course material, class code examples, Lab Session examples, Maps SDK for Android (https://developers.google.com/maps/documentation/android-sdk/start) and the following Android tutorial:

- Build location-aware apps (https://developer.android.com/training/location)

This material provides the necessary information that you need to complete the exercises.