

## Lab Assignment #5

Due Date: Week 10.

Purpose: The purpose of this lab assignment is to:

- Develop Android applications with LBS capabilities

References: Textbook, ppt slides and Android tutorials (<http://developer.android.com/guide/topics/location/index.html>). This material provides the necessary information that you need to complete the exercises.

Be sure to read the following general instructions carefully:

- This assignment can be completed by working in pairs, using **pair programming** technique.
- You will have to **demonstrate your solution in a scheduled lab session** and upload the solution on eCentennial through Assessments link

### 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 user selects the name in the list.

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. Other activities show the **list** of restaurants belonging to the selected cuisine. When user selects a restaurant, another activity shows the map with a **marker** pointing to the selected restaurant.

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

(10 marks)

### **Evaluation:**

<b>Functionalities:</b> All working, proper naming of activities, variables, and methods. Provide comments. Provide explanation when asked during the demonstration of the app.	75%
<b>UI friendliness</b> (proper layout, controls, styles, themes, images)	15%
<b>Declaring resources</b> in proper resource files	5%
<b>Innovative features</b>	5%
<b>Total</b>	<b>100%</b>