



Faculty of Engineering and Applied Science

Course:	SOFE4640U: Mobile Application Development
Assignment:	#2
Topic:	Basic Android
Due date	Nov. 17, 2021 11:59 pm

Note: This assignment is meant to be completed individually

Objectives:

Practice Android application development with databases and location services.

Instructions:

Create a LocationFinder app for the following instructions:

1. Find latitude and longitude of 50 locations by either searching online or using Location-Manager.GPS_PROVIDER on an android phone.
2. Use Geocoding to find 50 addresses of these 50 latitude and longitude pairs
3. Create a database and a location table with four columns (id, address, latitude, longitude) with these 50 locations
4. A query feature in the app to display latitude and longitude for a given address (if found in the database)
5. An add, delete, and update feature in the app to add, delete, or update entries into the location table

General Guidelines

In the courses' lectures, we have discussed many best practices for developing mobile apps, as well as best practices for the Android platform. Part of your mark will be allocated based on how well you adhere to those best practices. Other best practices you should be following include proper variable/method naming, and reasonably documented code. This means you don't need to document every line of code, but some of the high-level functionality.

Assignment Submission

Use a GitHub account to upload your project. Submit a maximum two page report explaining how databases and location services are used.

Rubric

When marking, the TA will use the following rubric:

Report	3
The app reflects the assignment's main idea	3.5
Functionality	3.5
<i>Total</i>	<i>10</i>