**LocationTracker – Learning Android GUI**

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| Course | INFO-3097 Mobile Development |
| Professor | Lianne Wong |
| Due | Monday, October 21st, 2019 at Midnight code submission  Wednesday, October 23rd, 2019 at 10:00pm to upload your apk to the Google Pixel 3 phone. (LDB603 the front desk is holding the phone and I will bring it to class) |
| Weight | 10% of your grade |
| Student Name |  |

**Project Description**

Create an android application that would record events at locations. You will have a google maps application that will record places that you have been in one type of pin or places that you would like to go to marked with another type of pin. For places that you have been, the requirements are to be able to record your current location along with a comment to show up on the pin. For locations that you would like to go, you should be able to place a different type of pin on the map. Note: You may choose how you would like to place your pin on the map (drag/drop, latitude and longitude coordinates, recyclerView information or Google Places). Your program must also have the ability to show the list of places that are pinned in a recyclerView. The recyclerView will have all the same information as shown on GoogleMaps but in a different format. Your app may use any of the activities on startup.

**Core features:**

1. The app should use Google Maps
2. There are two types of pins a) places that you have been and b) places that you would like to go to.
3. The pins must be visibly different for the two categories
4. Your application must be able to add a comment to each lat/lng position.
5. When the pin is pressed withing google maps, your comment about the location will show up
6. Your application must have a recycler view which shows a list of all the locations saved.
7. Your application must have data persistence. The list of pins should be saved and be able to see them upon restarting the program.
8. Your application must be able to clear all the pins
9. Your application must have an “About” button that when pressed will bring up a new window displaying your name and information about your application. Your name must be present on the About window.

**Grading Criteria:**

This project will be graded using the following criteria.

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| Google Maps working | 20% |  |
| Two different pins, one for places been (using current location) one for places that you want to go to | 20% |  |
| Comment for each pin shown when the pin is pressed | 10% |  |
| Current location obtained using location services | 20% |  |
| RecyclerView of all locations pinned | 20% |  |
| Data Persistance so all locations reloaded on new instance | 20% |  |
| Ability to clear all pins | 10% |  |
| Button for About which opens a new window and displays information about your application and your name. | 10% |  |
| Styling: Making it look good | 10% |  |
| Install the apk on the Google Pixel 3 phone available in the 6th floor office. If not installed, -40% |  |  |

**Project of your choice. (The choice has to be approved by Lianne by Oct 5) Grading Criteria:**

This project will be graded using the following criteria.

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| --- | --- | --- |
| Uses a RecyclerView. | 10% |  |
| Three different Activities | 10% |  |
| Complexity of the project and implementation | 50% |  |
| Button for About which opens a new window and displays information about your application and your name. | 10% |  |
| Styling: Making it look good | 20% |  |
| Install the apk on the Google Pixel 3 phone available in the 6th floor office. If not installed, -40% |  |  |

# Submission

1. Submit entire Android Studio project directory to Fanshawe Online in a .ZIP or .RAR archive file. You must also submit screenshots and a movie illustrating all the grading criteria.