Android Development Fundamentals – MAD 3125

**EMPLOYEE INFORMATION APPLICATION**..

**A MAD3115 FINAL PROJECT**

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**Course :** *MAD3125*

**Schedule :** *12:45 126BM*

Overview

MADT 3125 Final project requires to submit a fully functional and stable Employee Information Application that keeps track employee’s details including vehicle details that he/she has.

The application is for Android devices, implemented using JAVA programming language developed and compiled in Android Studio.

Purpose

To develop a mobile application that covers all basic Android Fundamentals discussed in course MAD 3125.

Functionality and Features

This application supports the following functionality and features:

* User can see all added/registered employees from a list that also displays corresponding ID
* User will be able to search for employee name by using a SearchView
* User will be able to view each employee details by clicking the employee name from a list.
* User can add more employee details

**Employee List Page**

This page contains 3 android widgets:

SearchView – So that the user will be able to search for employee name

RecyclerView – Displays all added/registered employee with corresponding employee id

Button – Add button for user to add/register new employee details

**Register Page**

User is asked to input details such as basic information and vehicle information. With the information inputted, the following values are programmatically calculated:

* Employee age
* Employee Annual income

A button “REGISTER” is pressed once all details are filled.

A Toast message is displayed if the REGISTER button is pressed and at least one of the following are not fulfilled:

* Not all fields are filled
* Birth year is lesser that 1990
* ID inputted is already taken. Means, another employee has already inputted the same ID

**Employee Details Page**

Displays all Details of an Employee. Name, ID, Annual Income, Company Contributions, Type of Vehicle he/she has.

Difficulties Encountered

1. Adding subtitle in a list is complicated for a newbie like me. Compared to IOS programming where you can set the cell detailed text, in Android, I have to create a list adapter and implement the list in Recycler View.
2. I often forget to have error trapping when sending empty arraylist to my List Adapter that causes crashes upon runtime
3. It took me 2 hours to debug passing data in an intent knowing my keys did not match

Github

Link: https://github.com/otetLopez/EmployeeSalaryManager

Repository: EmployeeSalaryManager

Branch: master

References

* Recycler View:

<https://github.com/hiepxuan2008/basic-recyclerview-android>

* Everything else

https://developer.android.com/reference/

Files Submitted

Compressed folder ***VulcanSalute\_768425\_FP.ZIP*** that contains the following

* Report[PDF] ***VulcanSalute\_768425\_FP.PDF***
* Android Studio Project ***VulcanSalute\_768425\_FP***