

## EMPLOYEE INFORMATION APPLICATION

### A MAD3115 FINAL PROJECT

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**Course** : *MAD3125*  
**Schedule** : *12:45 126BM*

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### 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 than 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 RecyclerView.
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

Total commits At least **54** commits

## References

- Recycler View:  
<https://github.com/hiepquan2008/basic-recyclerview-android>
- Everything else  
<https://developer.android.com/reference/>

## Files Submitted

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

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