

**Objectives:**

To make use of what was taught in this module to design and develop a Movie Review application on the Android platform.

**Scenario:**

PopCornMovie is a company that rates movies. They are looking for a mobile application that allows users to rate movies that they have watched.

**Deadline**

- Week 7: Friday, 23:59

This assignment holds a total of 20% of the final ICA.

Listed below are the deliverables that is expected.

**Deliverables:**

- Zipped file with source codes that fulfills the Basic requirements.
- Zipped file with source codes that fulfills the Intermediate requirements.
- Zipped file with source codes that fulfills the Advance requirements.

Format of file name : [Admin number]\_[Advance/Intermediate/Basic].zip

e.g. 20202A\_Advance.zip

**Instructions:**

- This is an **INDIVIDUAL** assignment. Students are to submit their assignment to Blackboard.
- Marks will be deducted for the following conditions.
  - Applications that cannot run upon first time installation
  - Late submissions
  - Not submitting work based on instructions given in the assignment
- Students caught plagiarizing from other source (Internet, friends, Etc..) will cause their submission to be voided.
- The application should be able to run in the following environment
  - Emulator: Pixel 2
  - Minimal SDK: API 27: Android 8.1 (Google API)

**Note:**

- For Basic and Intermediate, there is no need for any navigation of screen.
- Paddings and margins are not allowed to be used to move the view into position.
- Unless specified, all view sizes should only be either `wrap_content` or `match_parent`.

**Part 1: Basic [30 marks]**

**Add Movie [AddMovieActivity]**

This activity will assist the user to add in a new movie that s/he has just watched.

Create an activity to include all the fields shown in the screenshot.

- After clicking on the “Add Movie” button, display the details using a toast control. (10 marks)
- On selecting “Not suitable for all audience” check box, the “violence” and “language used” check box will appear. The two check box will disappear when the “Not suitable for all audience” is unchecked. (5 marks)
- Validate all fields to ensure it is not empty. (5 marks)

**Toast Display**

**Displaying of checkboxes**

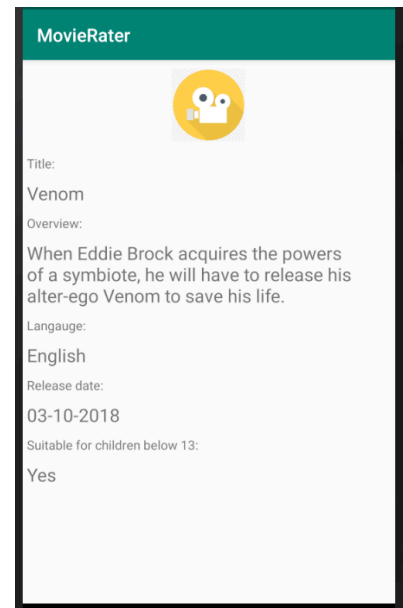
**Error Display**

**View Movie details [MovieDetail]**

1. Allow user to view the details of a movie.  
Create an Activity to include all the fields shown in the screenshot.

**Note: Values displayed are read from a Movie Entity class.**

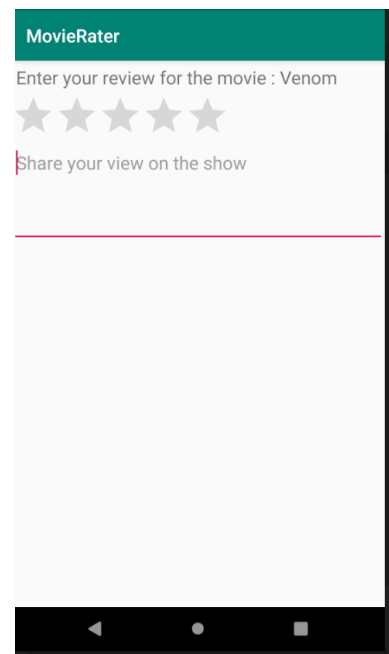
**(5 marks)**



**Rate Movie [RatingActivity]**

1. Allow user to rate a movie.  
Create an Activity to include all the fields shown in the screenshot.  
The name of the movie is to be set to "Venom" on creation of the Activity.

**(5 marks)**



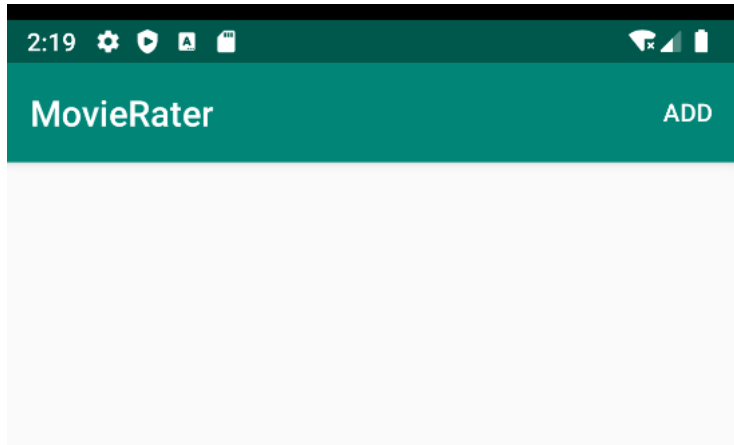
## **Intermediate [40 marks]**

### **Landing Page [MainActivity]**

This activity will be the landing page of the application.

- Create an Activity to include all the fields shown in the screenshot.

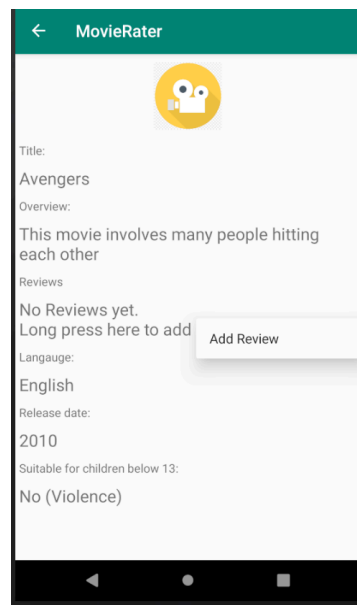
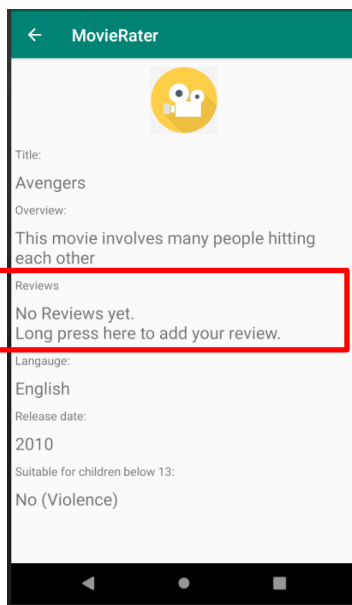
**(5 marks)**



### **Add movie review [MovieDetail]**

- Add in the new UI controls to reflect user's review on the movie.
- Long press triggers a menu that allows the user to add a review for the movie.

**(10 marks)**



**Edit Movie details [EditMovieActivity]**

1. Allow user to edit the details of a movie.

Create an Activity to include all the fields shown in the screenshot.

**Note: Values are to be read from a Movie Entity class.**

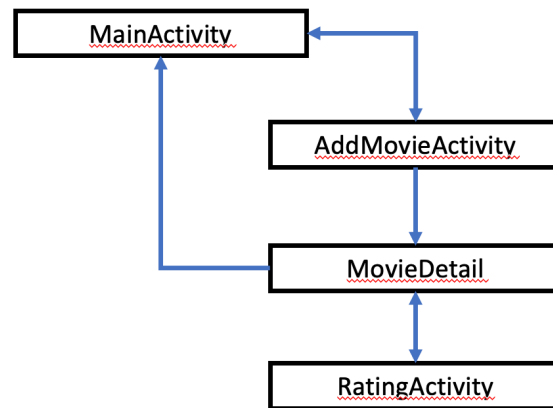
(5 marks)

**Add movie [Update] [AddMovieActivity]**

- Remove the “Add Movie” button and replace it with a menu item in the app bar.
- Add in another menu item at the overflow to “reset” all the entries by the user.

(5 marks)

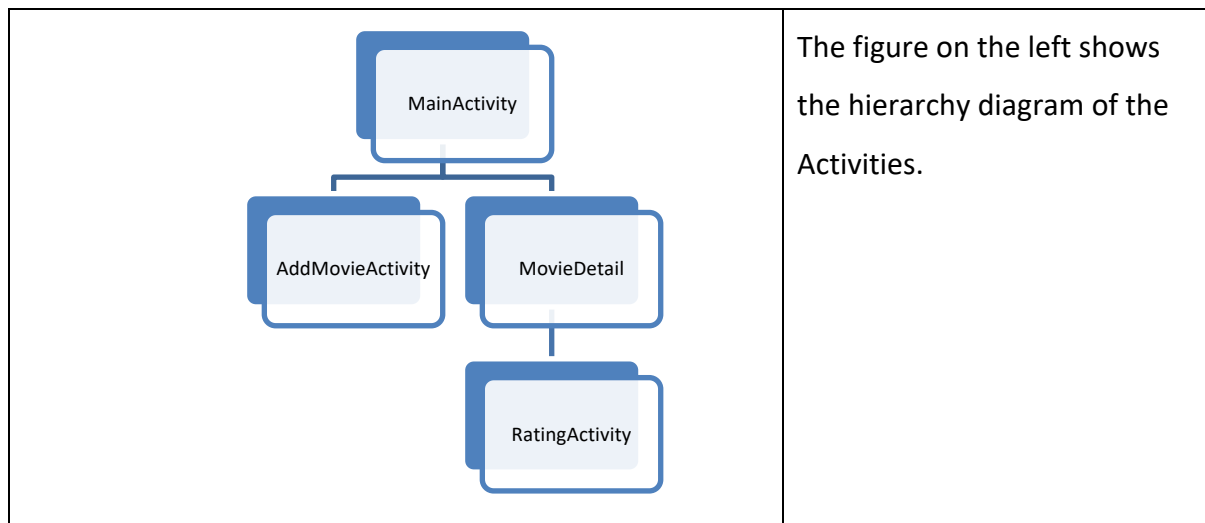
## Navigation



Referring to the diagram above, use intents to link up all the activities and pass the necessary information to the receiving Activity.

There is no need to save the information into the database. All data is to be saved in necessary variables or data structures. E.g. After adding a movie in “AddMovieActivity”, the data should be passed to MovieDetail for display.

**(15 marks)**

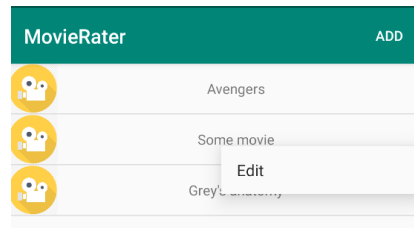


### Advance [30 marks]

#### Database & List Items

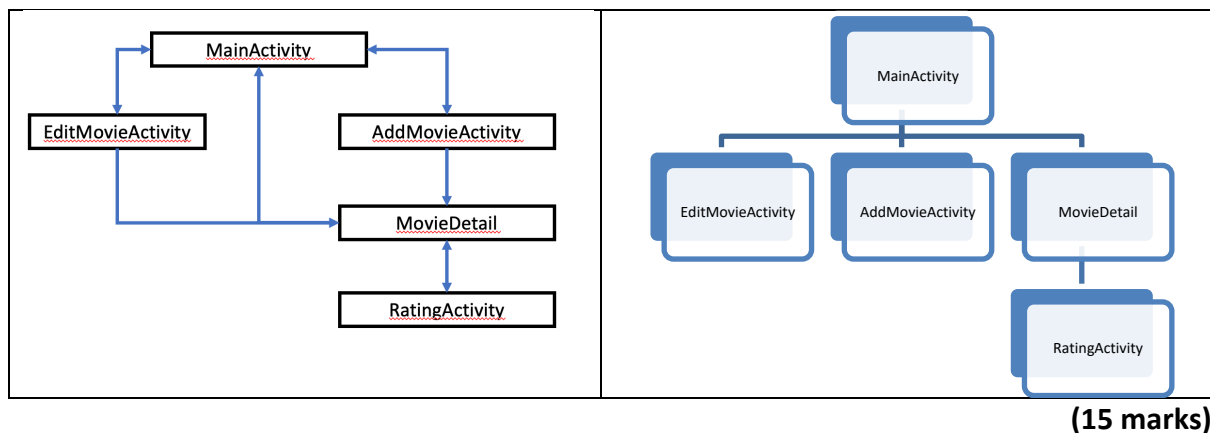
Making use of local database, save all the necessary data when a movie is added and edited. The new data will be displayed into the List View in MainActivity.

Long press of the List View item will open up a menu which allows the user to launch EditActivity. The activity will retrieve and update the database with the updated data.



Tapping on the List View item will launch MovieDetail Activity. The activity will retrieve the correct data and display it to the user.

The final navigation flow and hierarchy will look like the diagram below.



#### Styles, Drawables and Animations

Making use of styles, drawables and animations ONLY, improve the user interface and experience of the application.

This part of the assignment, marks are given to innovation and appropriate usage.

Listed below are some learning references.

- <https://developer.android.com/codelabs/motion-layout#10>
- <https://codelabs.developers.google.com/codelabs/android-training-drawables-styles-and-themes/#5>
- <https://codelabs.developers.google.com/codelabs/material-motion-android#0>

**(15 marks)**