



Gyalpozhing College of Information Technology
Royal University of Bhutan



ITW202 MOBILE APPLICATION

Assignment 2

SECTION B

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1 Introduction

a) Purpose

A movie review is an article reflecting its writers' opinion about a certain movie and criticizing it positively or negatively, which enables everyone to understand the overall idea of that movie. Movie reviews plays a vital role in actively influencing consumers in their selection process and forecast the success of the movie.

The app i am developing is named Movie Review and is an Android app where users can view the review provided for a particular movie and provide their opinion by commending about the acting, cinematography, plot , story and all. Not only will this app provide review but also display the ratings provided by different critics.

Aim: To develop a movie review application which includes Bhutanese cinema

Objectives:

- Provide easier access to movie reviews and ratings.
- People with interest in cinema to gather.

b) Scope

System Scope

- **View:** After downloading the app, the users can view the app.
- **Update:** It allows the admin to update new movies and their details.
- **Edit:** It allows the admin edit the movie details.
- **Delete:** It allows the admin to delete movies.
- **Remove:** It allows the admin to remove the users who commented inappropriately.
- **Login:** If the user wants to comment on a particular movie, they will have to login if not register.

User scope

- There is no specific target for this app, anyone can use this app to view and provide reviews and rating.

2 Requirements

a) Functional Requirements

- **View:** After downloading the app, the users can view the app.
- **Manage:** It allows the admin to add, update, edit and remove movie details
- **Remove:** It allows the admin to remove the users who commented inappropriately.
- **Login:** If the user wants to comment on a particular movie, they will have to login if not register.

b) Non-Functional Requirements

i. Performance

- The software should support multiple users at the same time.
- The app should be independent of the different versions of android.
- The database should be able to accommodate a lot of records.

ii. Safety

- The database may crash any time due to virus infection, system failure, software corruption and human error, so it is necessary to have backup.

iii. Privacy

- Privacy is needed when we have very sensitive data or data which can cause any kind of violation to the users specifically. But our application takes least sensitive data so privacy is not highly considered.

c) Software Requirements

- Andriod Studio version 4.1.2
- Java Standard Edition Development kit (JDK) 15
- Andriod SDK version 16
- Gradle Version 6.5
- Operating System: Microsoft windows 10/8 (64 bit) or Ubuntu 20
- Database: Firebase version 19.2.1

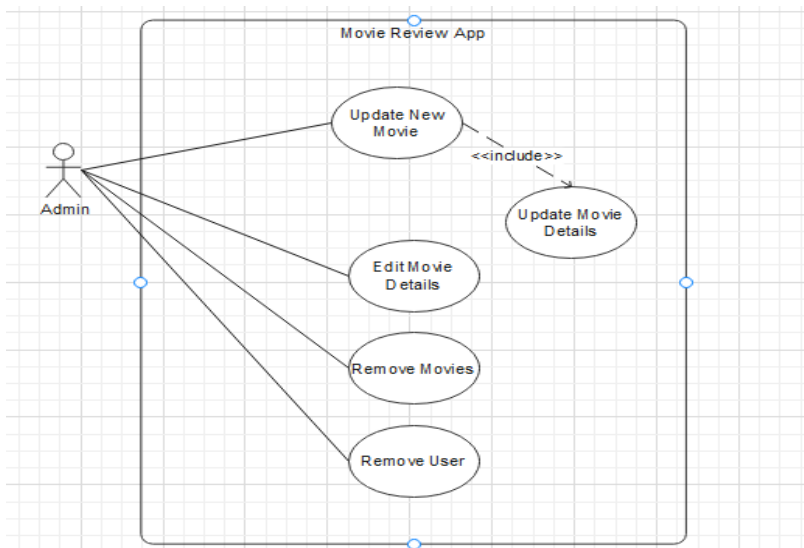
3 Hardware Requirements

- RAM: 4GB and above
- Processors: Core i3 and above.
- Disk space: 2GB and above.
- Android Smartphone.

4 System design

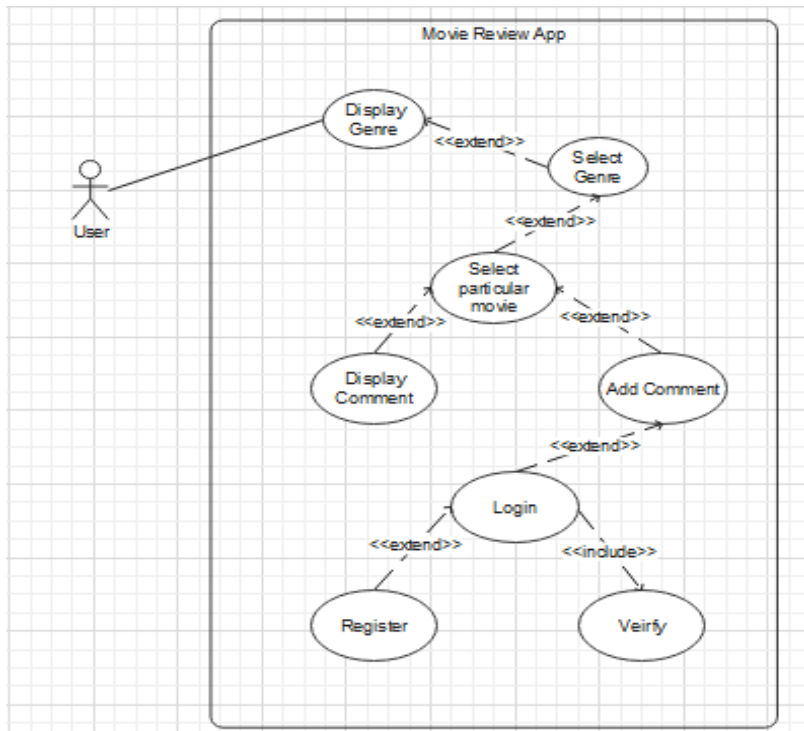
a. Use case

Admin:



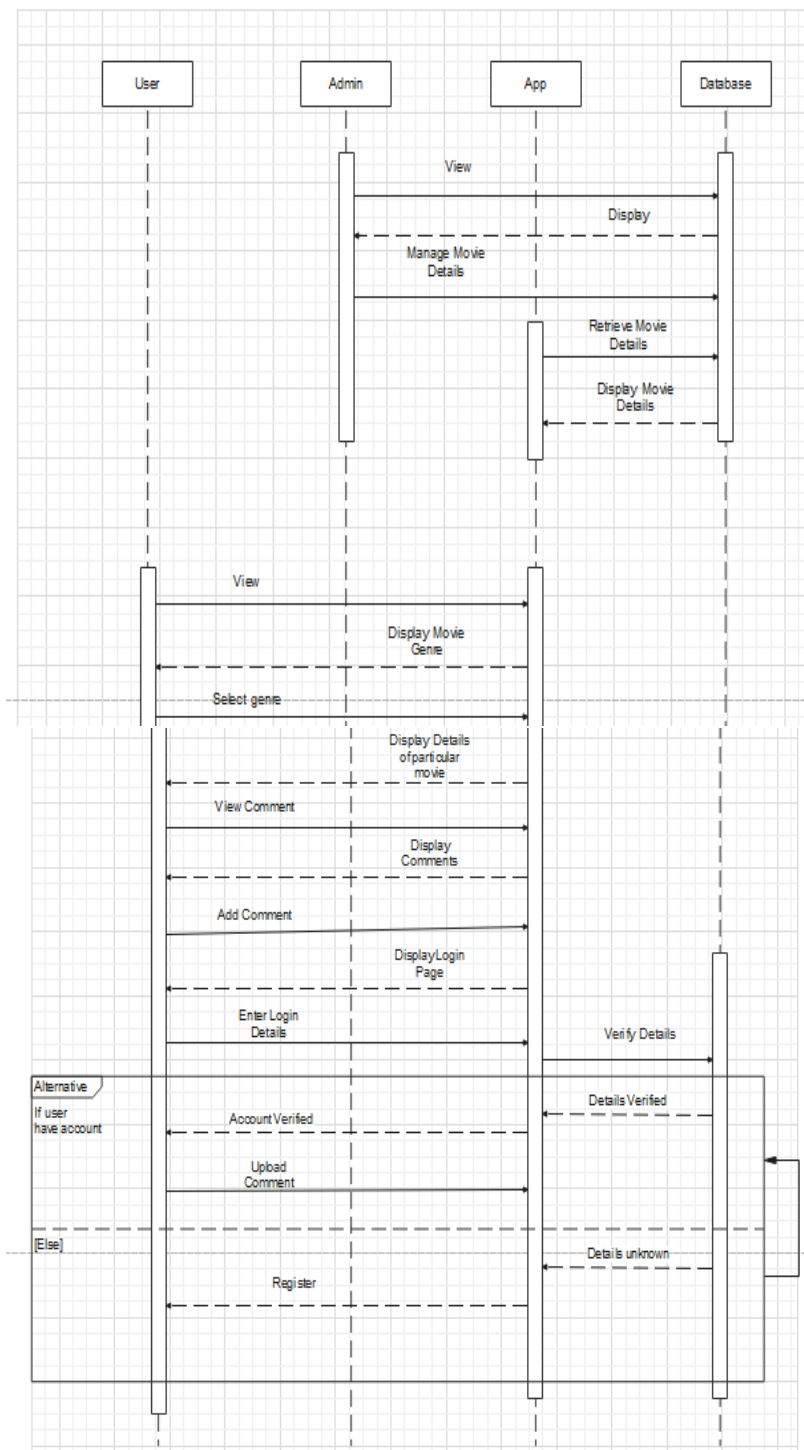
- Admin can update new movies and their details such as movie rating, synopsis and release date.
- Admin can edit movie details such as rating which may change with time.
- Admin can delete unnecessary movies.
- Admin can remove the users who commented inappropriately.

User:



- When the user opens the app they will be displayed with different movie genre in the home-page. The user may select a a particular genre and after selecting the genre they can select a particular movie. The user can read the review provided or can add comment to the movie selected.
- To add comment the user need to have a account. If the user has a account, they can provide the review and if not the user will have to register.

b.Sequence Diagram



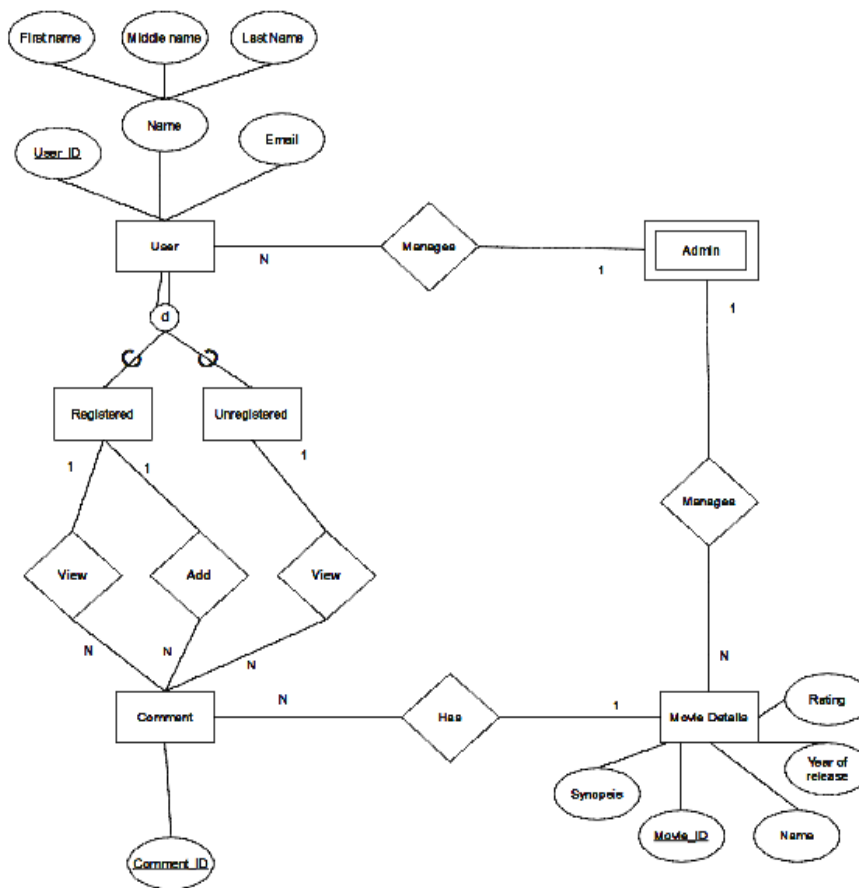
Admin:

- Admin can manage the movie details stored in the database
- Admin can retrieve movie details from the database and display it in the app.

User:

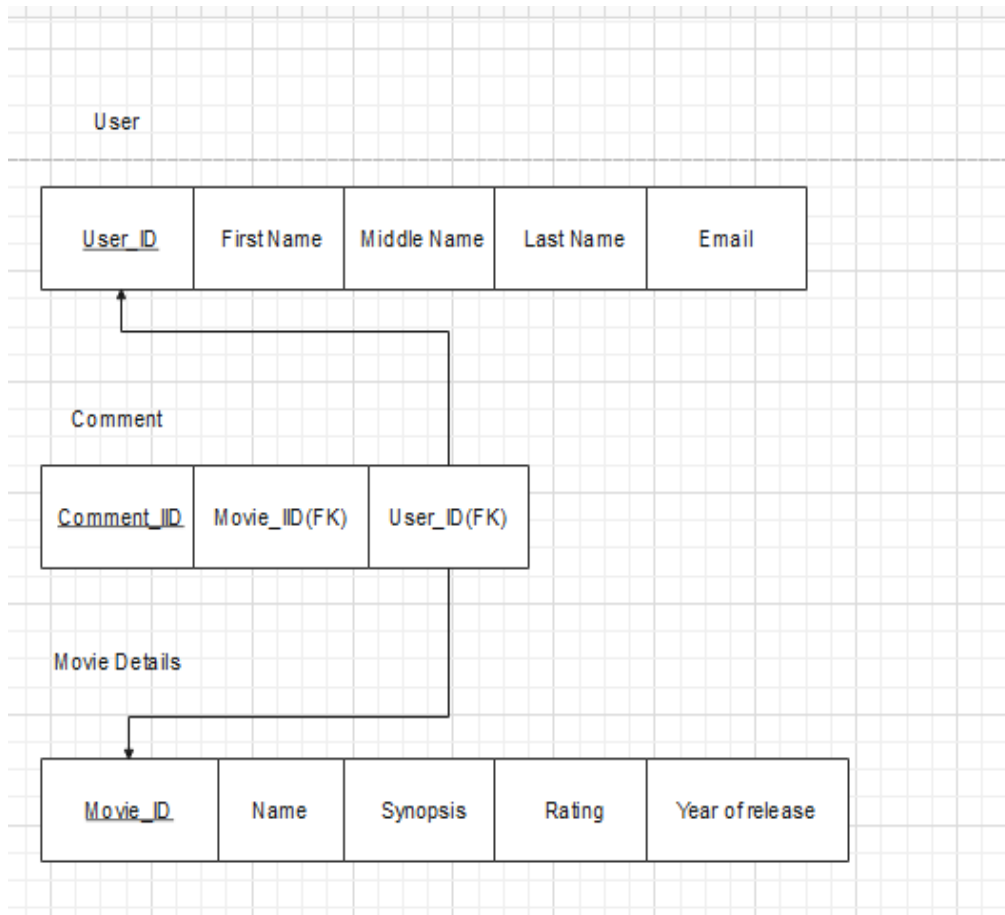
- When the user opens the app they will be displayed with different movie genre in the home-page. The user may select a a particular genre and after selecting the genre they can select a particular movie.
- The user can view the comments provided and can add comment too. To add comment they will have to enter login details and the details will be verified by checking the database. If it is verified they can login and give reviews if not they will have to register.

c.ERD (Entity Relationship Diagram)



- My ERD contains 3 strong entity and 1 weak entity. Under the entity user, we have registered and unregistered entity. Each entity has their attributes which is the characteristics or the properties of an entity and has multiple relationship between them.
- Cardinality Relationship between entities:
 - The entities User and Admin has cardinality of One to Many as a single admin can manage multiple users.
 - The entities Admin and Movie Details has cardinality of One to Many as a single admin can manage many movie details.
 - The entities Movie Details and Comment has cardinality of One to Many as a single movie can have multiple comments
 - The entities Registered under User entity and Comment entity has cardinality of One to Many as a single user can view and add multiple comments
 - The entities Unregistered under User entity and Comment entity has cardinality of One to many as a single user can only view multiple comments as they are not registered.

d.Relational Schema



- The entities are turned into a table. Separate relation is created for all the participating entity sets.
- The composite attribute Name is not included in this relation instead parts of the composite attribute are mapped.
- The key attributes of one's side entity set is mapped as foreign key in many's side relation.
- The arrow is pointing towards the primary key which it referred.