



Pearl Yadana Vocational Training Center

Rublat

Project for Developer Training Course

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CHAPTER 1

INTRODUCTION

1.1 PROJECT DESCRIPTION

RUBLAT, The Movie Review and Rating System is an excellent critic review-based platform that offers users a wealth of information and feedback from other users, allowing them to make informed decisions about which movies are worth watching. The system operates with three distinct roles: Guest, Customer, and Administrator.

The system provides a user-friendly interface where customers can access comprehensive movie information and more. Let's begin by discussing the Guest role. Guests are similar to customers, but they have limited privileges compared to registered customers. Guests can only access basic movie information and an overview rating for each film. To enjoy full access and benefits, guests can easily register and log in to our system to become customers.

Customers, on the other hand, have plenty of options and functionalities available to them. They can search for movies and explore detailed information about each film. Additionally, customers have the privilege of reading and engaging with other customers' comments and reviews, providing them with valuable insights and perspectives.

The Administrator plays a crucial role in managing the system's movie database. They have the authority to update movie information regularly, typically on a weekly basis, ensuring that the system remains up-to-date and accurate. The administrator also possesses the power to delete or modify movie entries when necessary, guaranteeing the integrity and relevance of the movie database.

In summary, the Movie Review and Rating System is an exceptional platform that utilizes critic reviews and user feedback to assist movie enthusiasts in making informed decisions. With distinct roles for Guests, Customers, and Administrators, the system offers a comprehensive range of features, ensuring a seamless user experience and empowering individuals to explore and appreciate the world of cinema.

1.2 OBJECTIVES OF THE PROJECT

The objective of the project is:

- To provide user-friendly environment
- To reduce time going to movie store and searching for a particular movie.
- To summarize the film so that customers have more information with which to gauge their interest in the film.
- To update new movie and information

1.3 SCOPE OF THE PROJECT

The scope of the system is as follows.

- The Guest can only view movie and a little bit of information. They can't read or see other customer comments.
- Customer can search movies, actor, actress, director and give rating and comments, also see others customer comments.
- Comments are sorted by star review descending.
- Admin will update new movies and their information at least once a week.
- Admin can search customer username and they can see which movie they give rating and comment.

1.4 HOW DOES THE CURRENT SYSTEM WORK?

Before the emergence of the movie rating and review system as we know it today, the business landscape operated differently. Movies were primarily exhibited in theaters, where people would buy tickets to watch them. The success of a movie depends on its box office performance, measured by the number of tickets sold and revenue generated. Moreover, they heavily relied on marketing and advertising campaigns to promote their films that includes trailers, posters, billboards and other traditional advertising methods.

Nowadays, with the rise of social media, individual influencers, bloggers, and vloggers have gained influence in the movie rating and review system. Their opinions and reviews on platforms like YouTube, Twitter, and Instagram can impact audience perception and contribute to the success or failure of a film. Moreover, Positive reviews and high ratings often generate positive word-of-mouth recommendations among friends, family, and online communities. This organic promotion can contribute to sustained success for a movie even after its initial release. Also, Movie studios and distributors analyze ratings, reviews, and audience feedback to understand consumer preferences

1.5 WHY IS COMPUTERIZED SYSTEM NEEDED TO BE USED?

A computerized system is crucial in the movie rating and comment system due to several reasons. Firstly, it enables efficient and streamlined processing of a large volume of ratings and comments. Secondly, a computerized system ensures accuracy and consistency in rating and comment management. It can apply predefined rules and algorithms to ensure fair and standardized evaluations, eliminating human biases or errors that may arise in manual processes. Additionally, a computerized system allows for real-time updates and immediate accessibility of ratings and comments. This enables prompt dissemination of information to potential viewers, helping them make informed decisions about which movies to watch.

1.6 SCOPE OF THE PORJECT

The scope of the system is as follows.

- The Guest can only view movie and a little bit of information. They can't read or see other customer comments.
- Customer can search movies, actor, actress, director and give rating and comments, also see others customer comments.
- Comments are sorted by star review descending.
- Admin will update new movies and their information at least once a week.
- Admin can search customer username and they can see which movie they give rating and comment.

1.7 WORK BREAKDOWN STRUCTURE

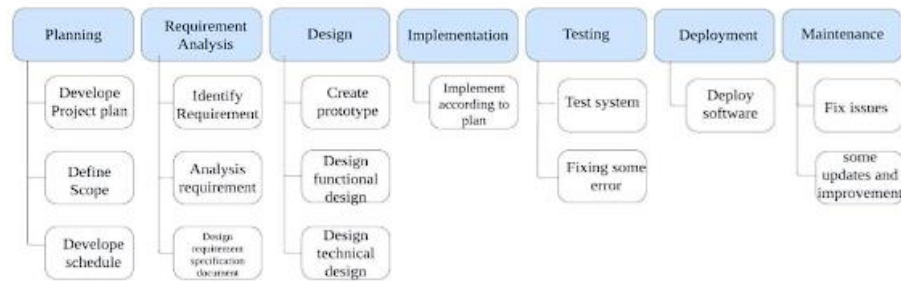


Figure 1.1 Work Breakdown Structure of Rublat

There are seven phases for work breakdown structure of the system. Planning phase includes developing project plans, defining scope and development schedule. Requirement analysis contains identify requirements, analyze requirements and design a specification document. The design phase includes creating preliminary prototype, functional design and technical design. The system also consists of implementation activities, Testing system, deployment and maintenance phases.

CHAPTER 2

PROJECT REQUIREMENTS

2.1 FUNCTIONAL REQUIREMENTS

Admin

- · Login with administrator account
- · Add, update and delete movie
- · View customer list
- · View Actor, Actress, Director Lists
- · Edit Actor, Actress, Director Lists
- · View movie list
- · Search customer username and see their rating

Customer

- · Register new account
- · Login with registered account
- · View movie
- · Give comment and rating
- · Search movie, Actor, Actress, Director (names)
- · Read other customer rating and review

Guest

- View movie information
- Can't view other customer rating and comment
- Can see overview rating

2.2 NON-FUNCTIONAL REQUIREMENTS

Usability

The usability of a movie rating and comment system is crucial in providing a positive user experience. Here are some key points to consider for enhancing usability:

1. Clear and intuitive interface: The interface should be easy to navigate, and the process of rating and leaving comments should be straightforward.
2. Ability to filter and sort: Users should be able to sort and filter movies based on their preferences, such as genre, release date, or rating.

Reliability

Reliability is how consistent the system is in different platforms. The ability of an apparatus system to consistently perform its required function, on demand and without degradation or failure.

Integrity

Integrity is a crucial aspect of any movie rating and comment system. It ensures that the data stored in the system is accurate and reliable. In the context of a rating and comment system, integrity can be maintained by implementing proper data validation and constraints on user inputs. This includes verifying that the user has not submitted a review for a movie more than once and preventing users from submitting fake reviews.

Extensibility

Extensibility is the ability of a system to cater to future changes through flexible architecture, design, or implementation. Extensible applications have excellent endurance, which prevents the expensive processes of procuring large inflexible applications and retrieving them due to changes in business needs.

2.3 SYSTEM REQUIREMENTS

The system requirements for the project are as follows.

- IDE :Eclipse IDE for Enterprise Java and Web Developers
- JDK :18.0.1.1
- Database Server :MySQL server version 8 or XAMPP
- Browser :Chrome, Microsoft Edge,etc.
- Front-end :HTML5, CSS3, JavaScript
- Back-end :Java
- Back-end framework :Spring 5.3.0 MVC

CHAPTER 3

PROJECT DESIGN

3.1 UNIFIED MODELING LANGUAGE(UML) DIAGRAM

3.1.1 USE CASE DIAGRAM

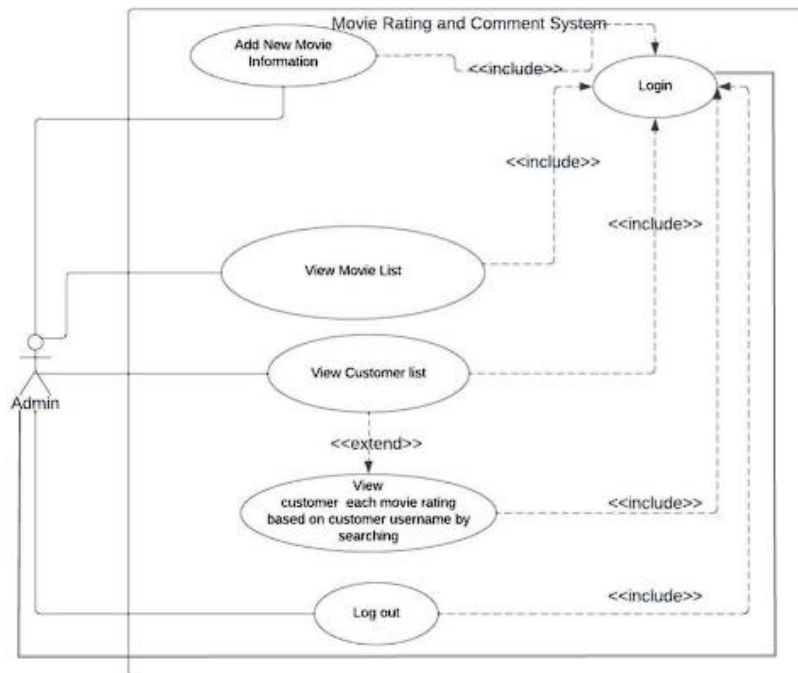


FIGURE3.1 USE CASE DIAGRAM FOR ADMIN

Figure 3.1 represents the use case diagram from the admin perspective. It gives an overview of the administrator involved in a system, different functions needed by the administrator and how these different functions interact.

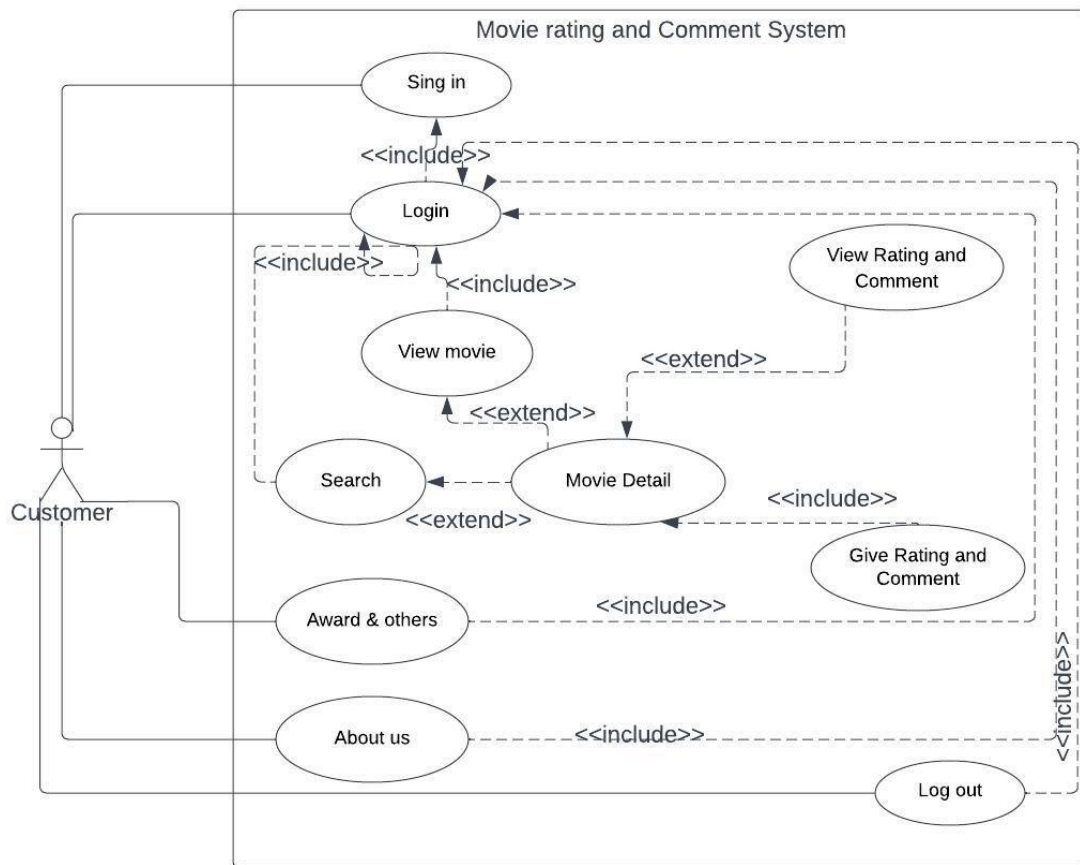


FIGURE 3.2 USE CASE DIAGRAM FOR CUSTOMER

Figure 3.2 shows the use case diagram from the Customer perspective. It contains different functions Customer can do like search and giving rating and review.

3.1.2 PACKAGE DESIGN

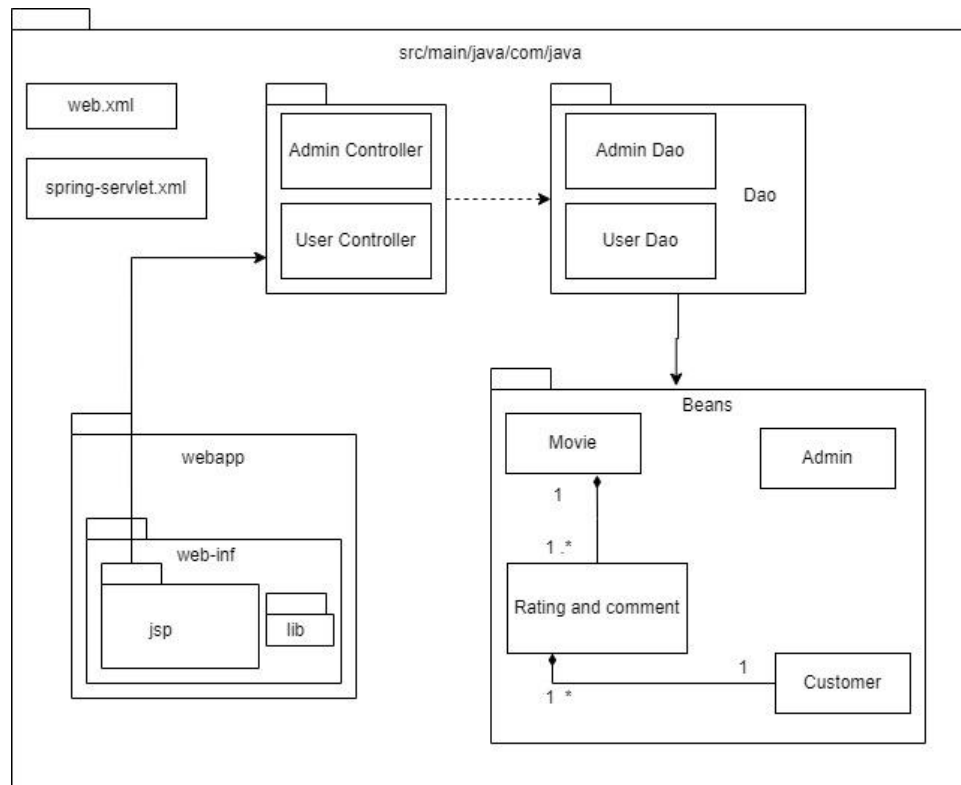


Figure 3.3 Package Diagram of Rublat

From Figure 3.3, there are four main packages. In the controller package, all the controller classes are included. For Dao package, all required Dao classes are added here. In beans package, bean classes are contained. For webapp package, there are required Jsp files and library files.

3.1.3 Class Diagram

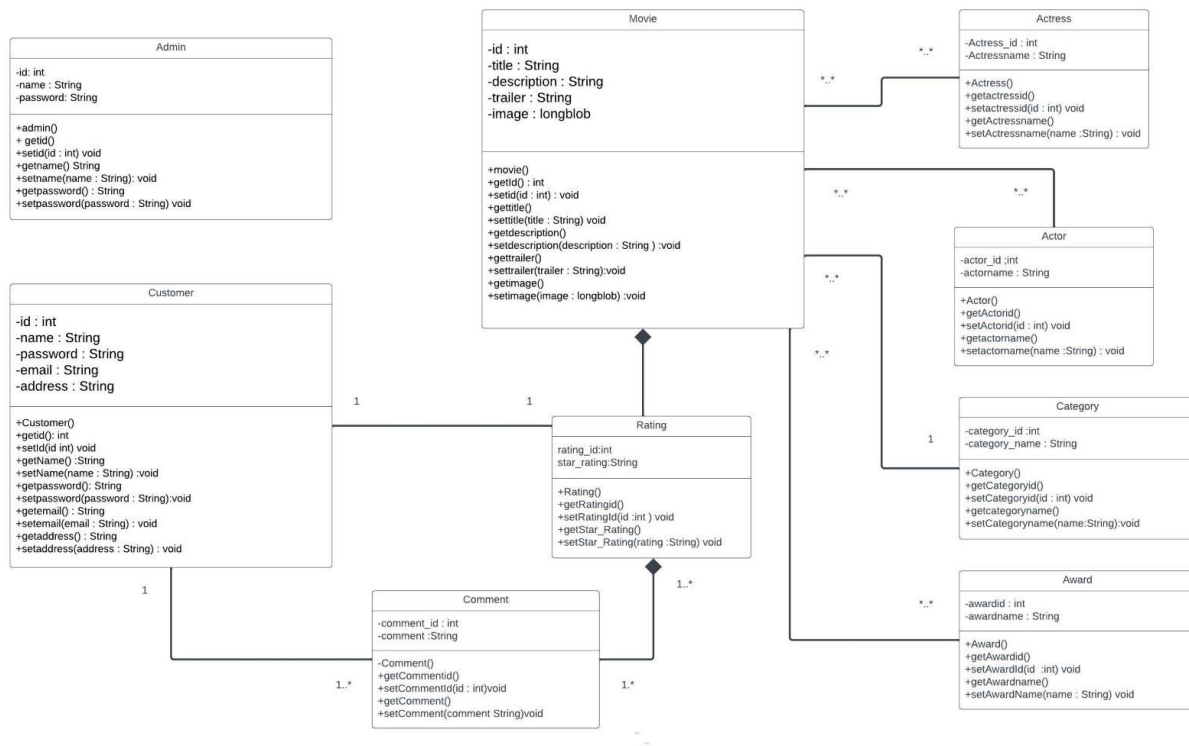


Figure 3.4 Class Diagram of Movie rating and Comment System

From Figure 3.4, there are four classes. One Movie can have zero comments, rating or more. Each Customer can give one comment, rating per movie. They can give up to one time, for next time even though they submit it will refresh the page, but it will not update another rating or comment if they had already done it.

3.1.4 Sequence Diagram

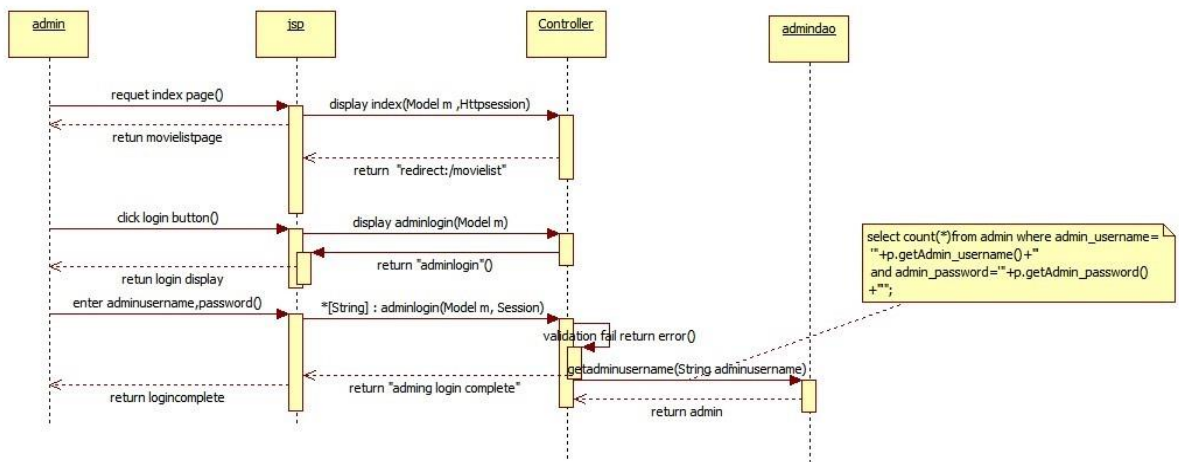


Figure3.5 Sequence Diagram of Admin Login

As shown in Figure 3.5 First, Admin must login to the system. He will enter username and password. The system will check if they are wrong or not. If it is wrong, an error will show in the form. If Login is true, he will reach the movie upload page.

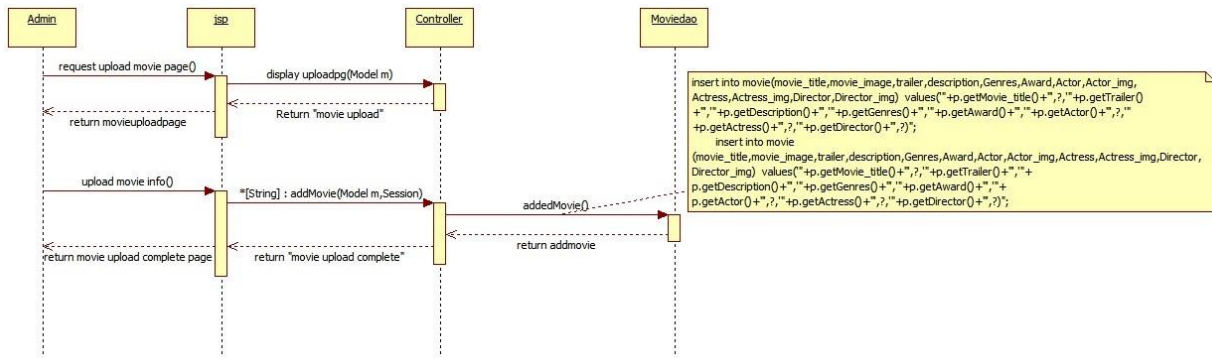


Figure 3.6 Sequence Diagram of Movie Upload

From Figure 3.6, Admin will enter information about movie he's going to update. After the movie upload is complete. Complete notification will show.

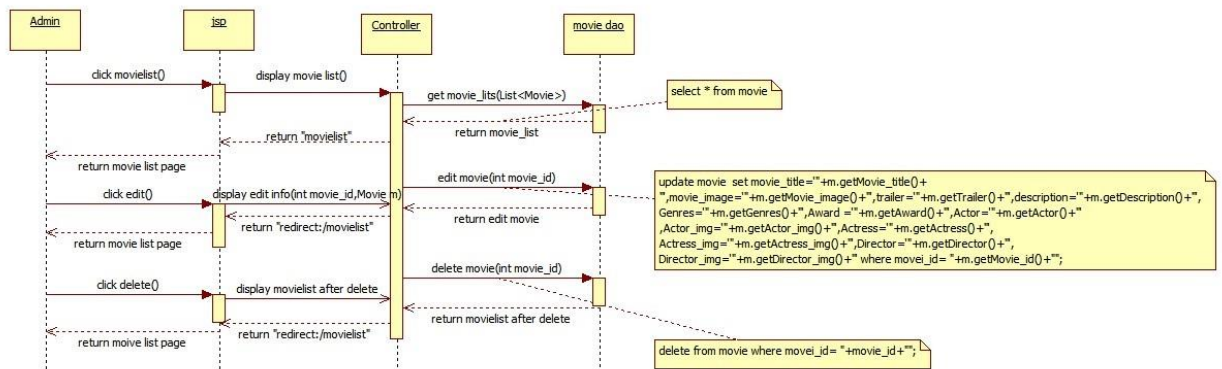


Figure 3.7 Sequence Diagram of Edit, delete movie

In Figure 3.7, The sequence diagram shows edit and delete process from admin view. Admin can edit the movie if some info is wrong. If the movie has no rating within a week, he will delete the movie.

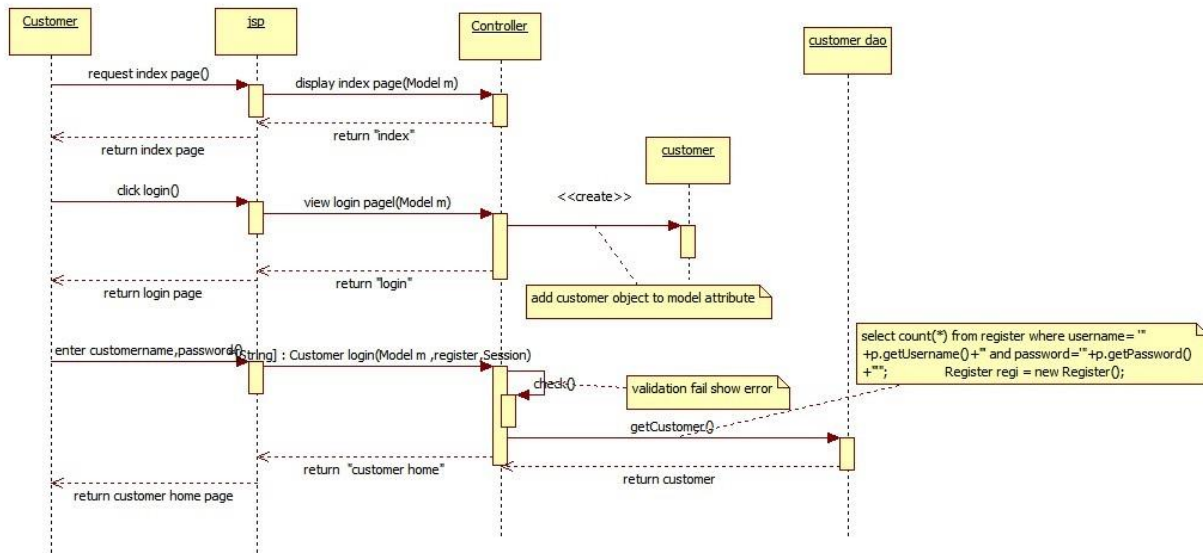


Figure 3.8 Sequence Diagram of Customer login page

Customer will Login to the System and after login complete it will reach to the home page.

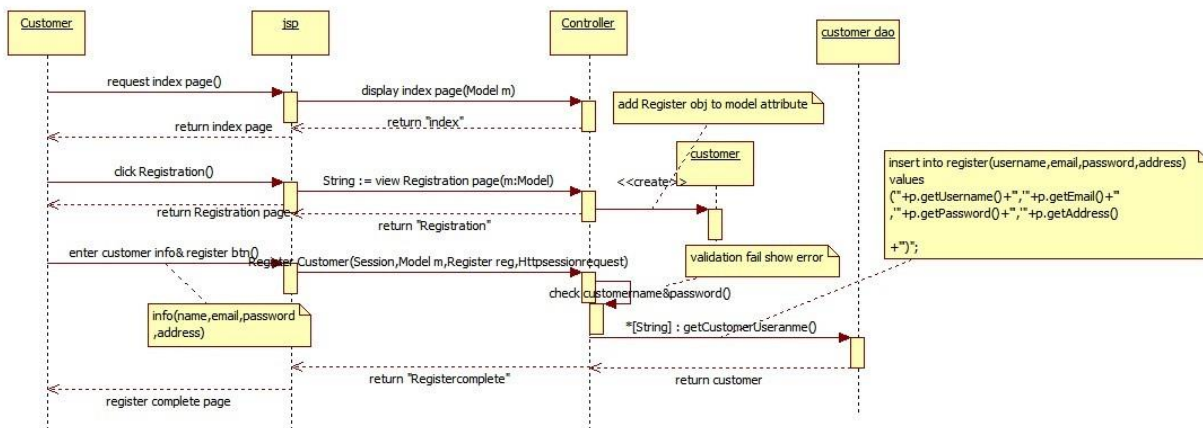


Figure 3.9 Sequence Diagram of Customer Register

This Figure shows the Registration process of Customer. After Registration is complete. Customer can Log in to the System.

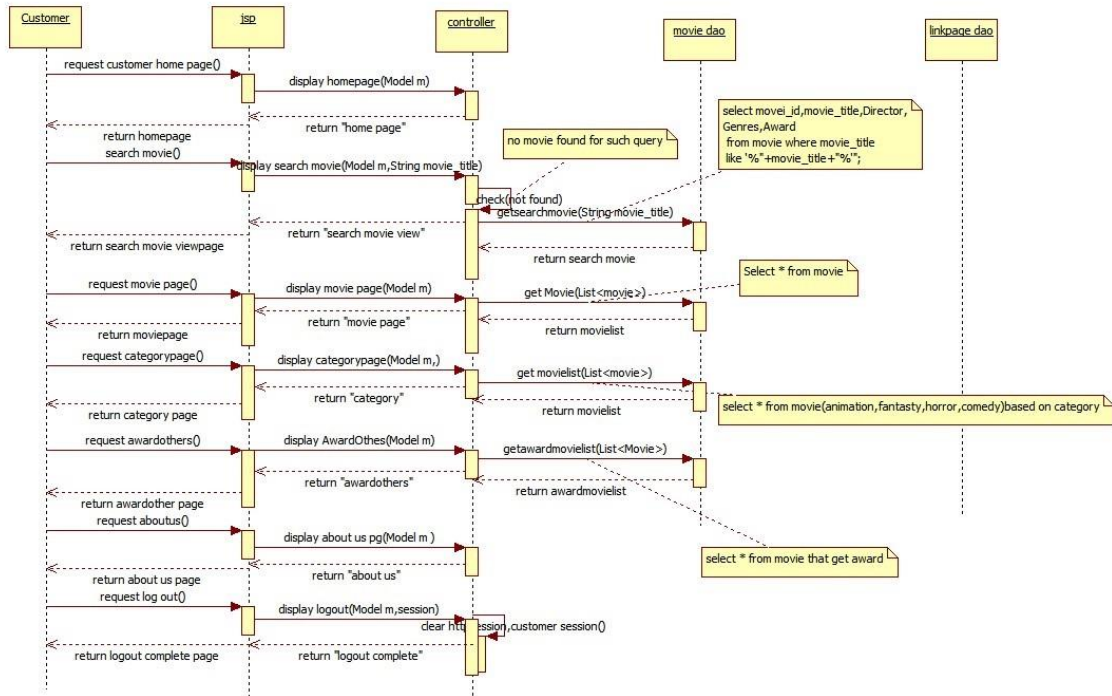


Figure 3.10 Sequence Diagram of Customer View page

After login complete, Customer will reach home page. From that, he can view movie pages, category pages, about us and awards and others page. Moreover, Customer can now give rating and comment.

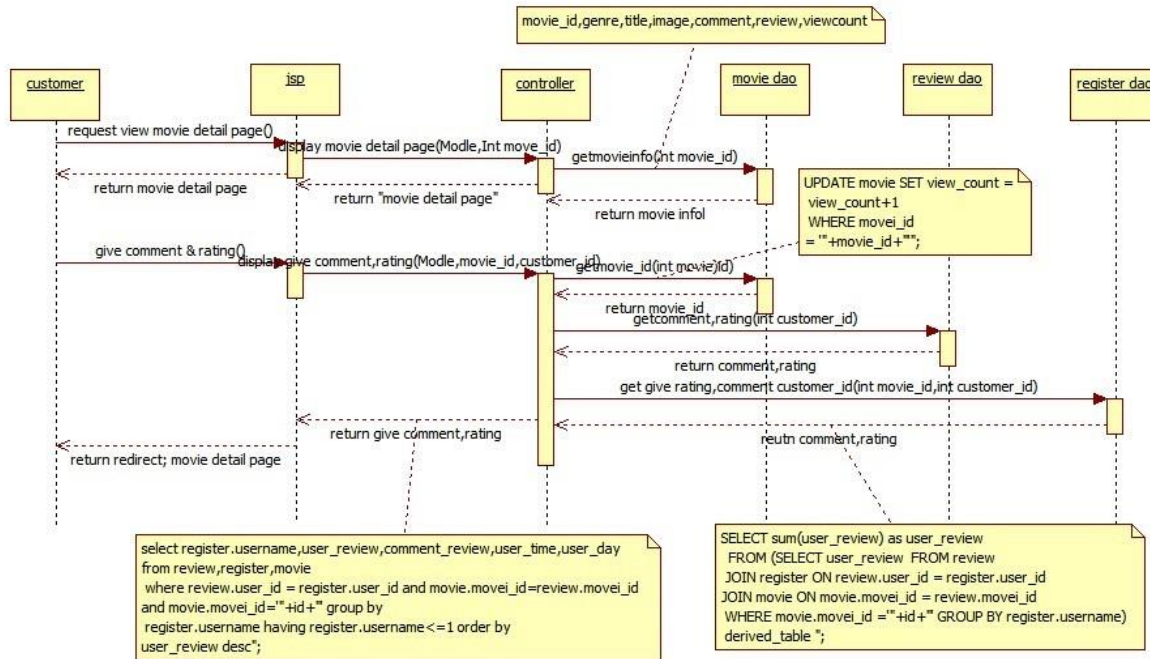


Figure 3.11 Sequence Diagram of Giving rating and Comment

As shown in Figure 3.11, Customer can view movie page and movie list will show. After click view detail, they can give a rating and comment for that movie.

3.2 Database Design

3.2.1 Entity Relationship Diagram (ERD)

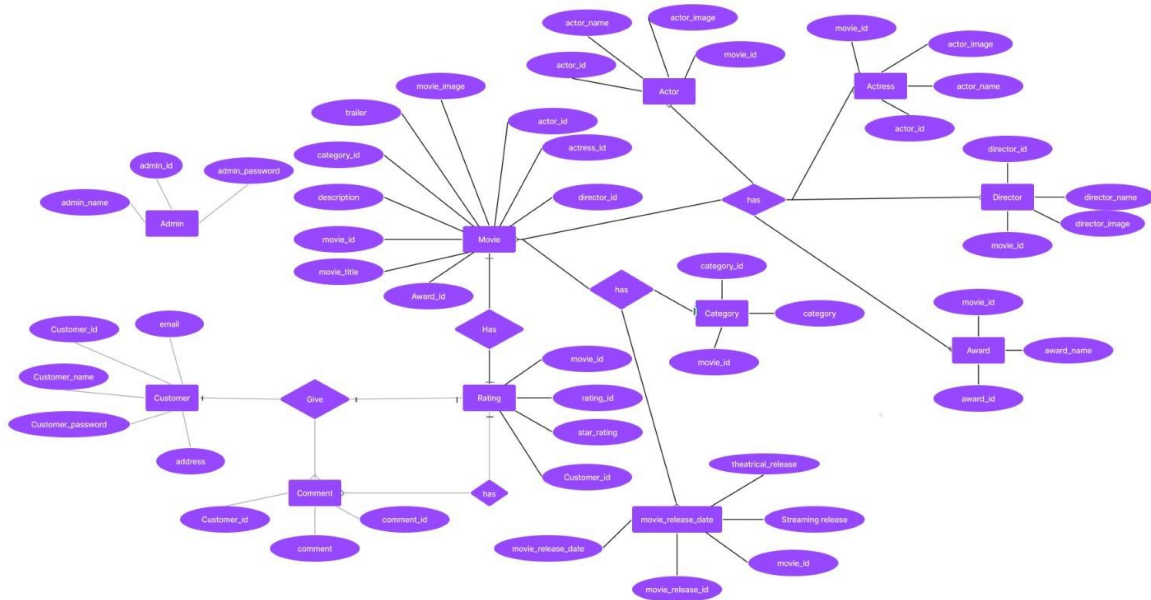


Figure 3.12 Entity Relationship Diagram of Rublat

There are six entities in Figure 3.13. Admin Entity is for administrator information and is placed alone. Each Movie can have zero or more ratings and comments. In one Movie form, Customer can give movie rating and comment and view other customer comment and rating.

3.2.2 Database Schema

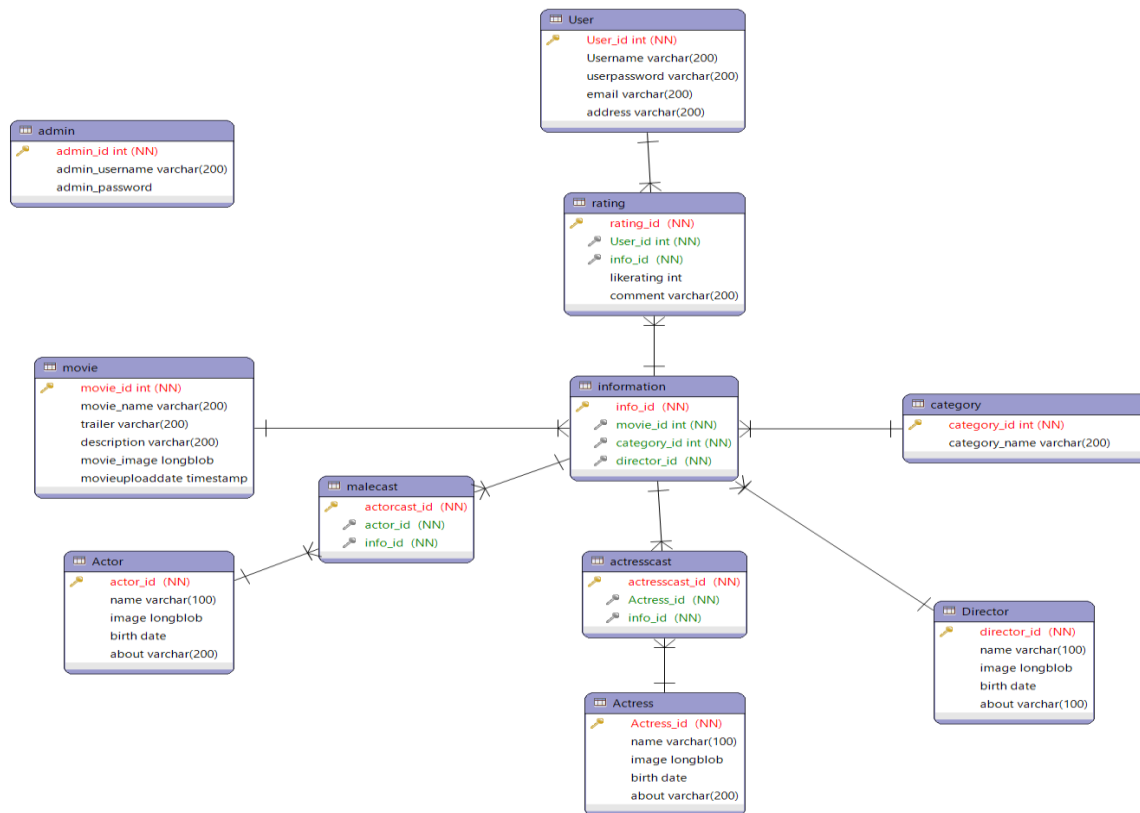


Figure 3.13 Database Schema of Rublat

In this Figure, there are six tables describing primary key and foreign key. All attributes and multiplicity relationships can be seen.

3.2.3 CRUD Matrix

	Movie	Rating	Actor/Actress/Director
Admin	C R D U	C R D U	C R D U
Customer	C R D U	C R D U	C R D U
Guest	C R D U	C R D U	C R D U

Table3.1 CRUD of Rublat

Admin has Full access to CRUD in Movie table and actor,actress,director tables but no access to rating table. Customer has only read on movie table and actor,actress,director table. Guest has no access to Actor,actress,director table but has read access to movie and rating table.

3.2.4 Data Dictionary

A data dictionary is a documentation or repository that provides detailed information about the data elements, attributes, and structures within a database or information system. It includes descriptions of data entities, attributes, data types, relationships, and constraints

Attribute Name	Data Type	Size	Column Status	Description
customer_id	integer		not null. auto_increment, primay key	customer_id,consist of unique number
customer_name	varchar	50	not null.	name of customer
password	varchar	50	not null.	customer password
email	varchar	50	not null.	customer email
Age	integer		not null.	customer age
address	varchar	200	not null.	customer address

Table 3.2 Data Dictionary table for customer

From table 3.2 there are six attributes for the customer table. Customer _id is the primary key, autoincrement and unique key. customer_id and age attributes are integer types, and the rest are varchar types.

Attribute Name	Data Type	Size	Column Status	Description
admin_id	integer		not null. auto_increment, primay key	admin_id,consist of unique number
admin_username	varchar	50	not null.	admin username
admin_password	varchar	50	not null.	admin password

Table 3.3 Data Dictionary table for admin

For admin table, there are three attributes and admin_id is a primary key and unique, integer type. The other two attributes are varchar types.

Attribute Name	Data Type	Size	Column Status	Description
actor_id	integer		not null. auto_increment, primary key	actor_id, consist of unique number
actor_image	longblob	50	not null.	image of actor
actor_name	varchar	50	not null	actor_name
about	varchar	300	not null	actor biography
birth	varchar	50	not null.	actor birth date

Table 3.4 Data Dictionary table for actor

From table 3.4, there are five attributes for actor table. actor_id is unique and primary key. Image was long blob type and actor_name, about and birth were varchar types.

Attribute Name	Data Type	Size	Column Status	Description
actress_id	integer		not null. auto_increment, primary key	actress_id, consist of unique number
actress_image	longblob	50	not null.	image of actress
actress_name	varchar	50	not null	actress_name
about	varchar	300	not null	actress biography
birth	varchar	50	not null.	actress birth date

Table 3.5 Data Dictionary table for actress

From table 3.5 there are five attributes for actor table. actress_id is unique and primary key. Image was long blob type and actress_name, about and birth were varchar types.

Attribute Name	Data Type	Size	Column Status	Description
director_id	integer		not null. auto_increment, primay key	director_id,consist of unique number
director_image	longblob	50	not null.	image of director
director_name	varchar	50	not null	director_name
about	varchar	300	not null	director biography
birth	varchar	50	not null.	director birth date

Table 3.6 Data Dictionary table for director

From table 3.6 there are five attributes for director table.director_id is unique and primary key. Image was long blob type and director_name,about and birth were varchar types.

Attribute Name	Data Type	Size	Column Status	Description
award_id	integer		not null. auto_increment, primay key	director_id,consistof unique number
award_name	varchar	50	not null.	image of director
movie_id	integer		not null	movie_id reference from movie table

Table 3.7 Data Dictionary table for award

Form table 3.7, there are three attributes for award table.Award_id is unique and not null.award_name is varchar type and the other two is integer type.movie_id is foreign key reference from movie table.

Attribute Name	Data Type	Size	Column Status	Description
movie_id	integer		not null. auto_increment, primary key	movie_id ,has unique number
movie_title	varchar	60	not null	name of movie
description	varchar	300	not null	about movie
trailer	varchar	300	not null	movie trailer
movie_image	longblob		not null	movie image
category_id	Integer		not null	foreign key, reference from category table
actor_id	integer		not null	foreign key, reference from actor table
actress_id	Integer		not null	foreign key ,reference from actress table
director_id	Integer		not null	foreign key ,reference from director table
award_id	Integer		not null	foreign key ,reference from award table
releasedate	timestamp		not null	date of movie

Table 3.8 Data Dictionary table for movie

From table 3.8, there are eleven attributes for the movie table. Only movie_id is the primary key .description,movie_title and trailer are varchar type.The fields ‘actor_id’, ‘actress_id’, ‘director_id’, ‘award_id’ and ‘category_id’ are foreign keys references to their respective tables.releasedate is timestamp datatype.moive _image is longblob datatype.

Attribute Name	Data Type	Size	Column Status	Description
category_id	integer		not null. auto_increment, primary key	category_id ,has unique number
category_name	varchar	60	not null	category name
movie_id	Integer		not null	foreign key ,references to movie table

Table 3.9 Data Dictionary table for category

From table 3.9 there are three attributes. Category_id is the primary key and unique. Only category name is varchar type and movie_id is foreign key reference to movie table.

Attribute Name	Data Type	Size	Column Status	Description
rating_id	integer		not null. auto_increment, primary key	category_id ,has unique number
star_rating	Integer		not null	give star point
customer_id	Integer		not null	foreign key ,references to customer table
movie_id	integer		not null	foreign key ,references to movie table
customer_day	varchar	30	not null	comment time
customer_time	varchar	30	not null	comment time
comment_review	varchar	500	not null	customer comment

Table 3.10 Data Dictionary table for rating

Table 3.10 has seven attributes. rating_id is primary key. Customer_id and movie_id are foreign key references to their respective tables.

CHAPTER 4

IMPLEMENTATION

4.1 User Interface Design

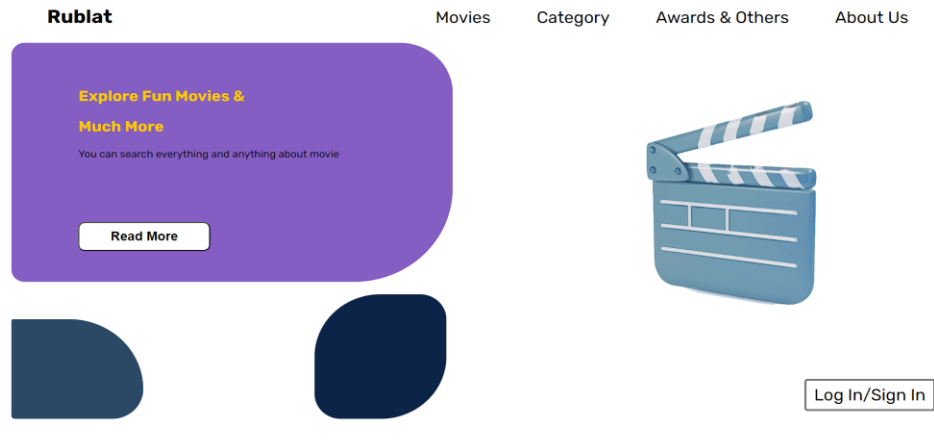


Figure 4.1 Home page for Customer

The home page features four navigation buttons: Movie, Category, AwardandOthers. Additionally, there is an 'About Us' page. On the bottom right corner, there is a 'Login' button. Clicking the login button will take you to the login page, while clicking the others will direct you to their respective pages.

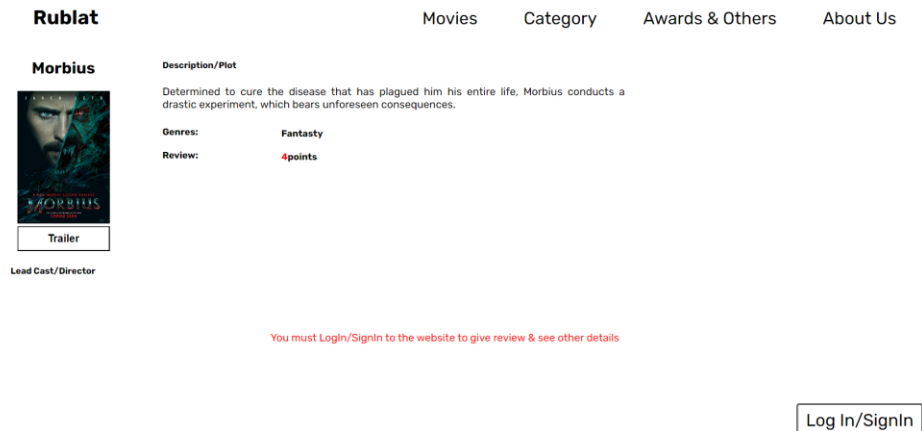


Figure 4.2 Movie detail page for guest

Guests who have not registered on our website can still view every page. However, on the movie details page, guests will only see the overview rating without the ability to view or leave comments. To provide a rating and see other customers' comments, login is required.

USER Login

Those who do not have a login account can register on the registration page. They need to fill out the registration form and accept the terms and conditions.

USER Login

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Rublat

Movies Category Awards & Others About Us

USER LOG IN

UserName
enter your username

Password
enter your password

Login

Not Register yet? [Create an account](#)

Admin Login

Figure 4.5 Login page

In the login form, customers are required to fill in their username and password. If either of them is incorrect, an error message will be displayed on the form.

Rublat

Movies Category Awards & Others About Us

USER LOG IN

UserName
aung

Password

Login

username is wrong! PLS TRY AGAIN!!!

Not Register yet? [Create an account](#)

Admin Login

Figure 4.6 Login username error page

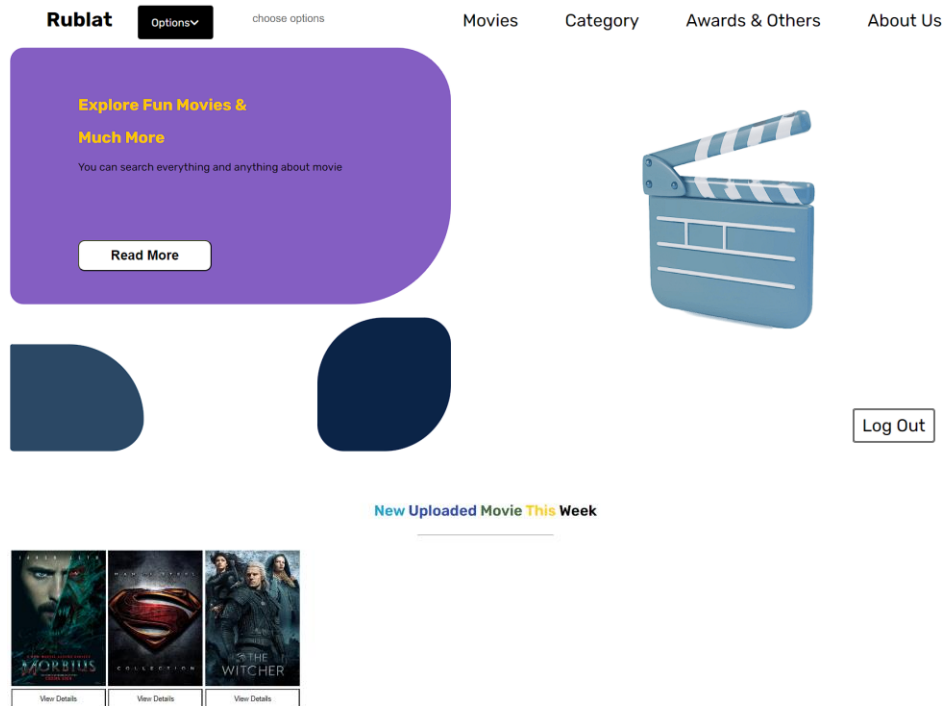


Figure 4.7 Home page

After successful login, the home page will be displayed, featuring a 'Log Out' button instead of the 'Login' button. The home page includes a search function, and upon scrolling, you will find a list of movies uploaded on the website within the current week.

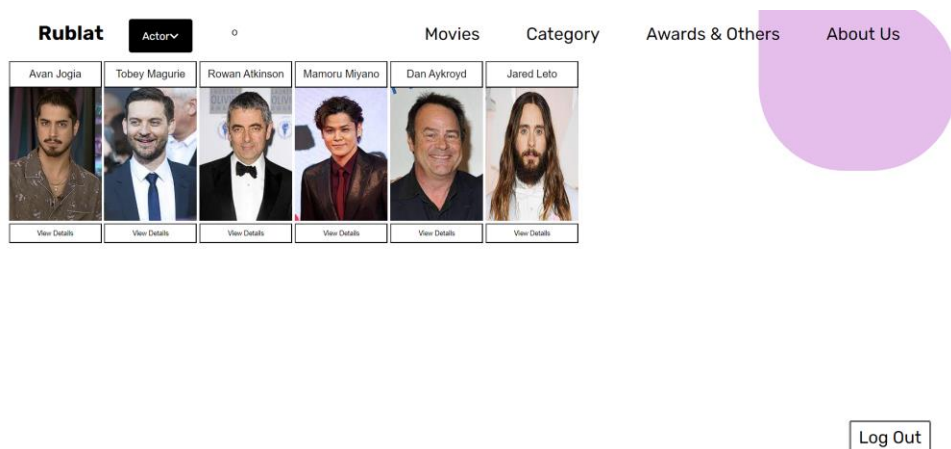


Figure 4.8 Actor Search page

You can click on the option button and search for actor, actress, and director names, as well as movie titles. In this example, searching for an actor is shown.



Henry Cavill

Birth :: May 5, 1983 (age 40 years)

About

Henry William Dalglish Cavill is a British actor. He is known for his portrayal of Charles Brandon in Showtime The Tudors, DC Comics character Superman in the DC Extended Universe, Geralt of Rivia in the Netflix fantasy series The Witcher, and Sherlock Holmes in the Netflix film Enola Holmes and its 2022 sequel.



[View Details](#)



[View Details](#)

[Log Out](#)

Figure 4.9 Actor View Detail page

When click on 'View Details,' you will be able to see the actor's biography, as well as a list of movies in which they are either related to or have performed as part of the cast.

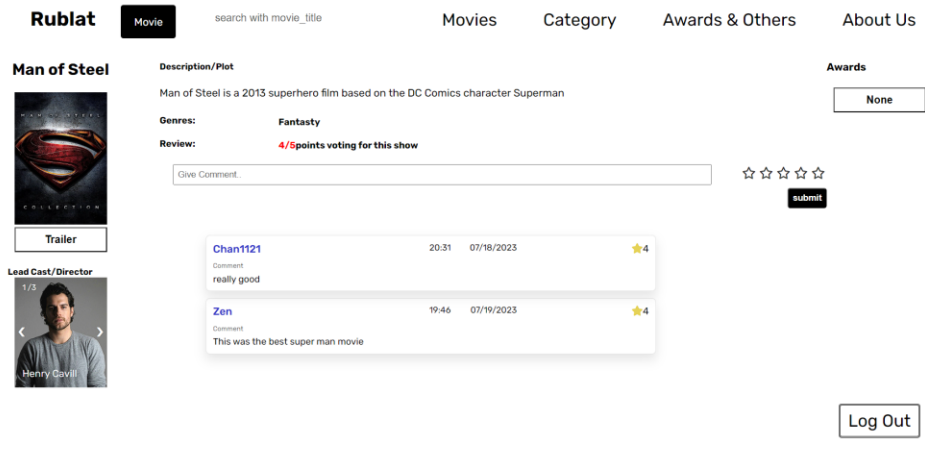


Figure 4.10 Movie View Detail page

When clicking on the 'View Details' page for a movie, it will display all the relevant information about the movie. Additionally, it can also show the rating given by customers and any comments left by other customers. Customer can also give a rating for the movie by submitting it, and it will be displayed in the corresponding section.

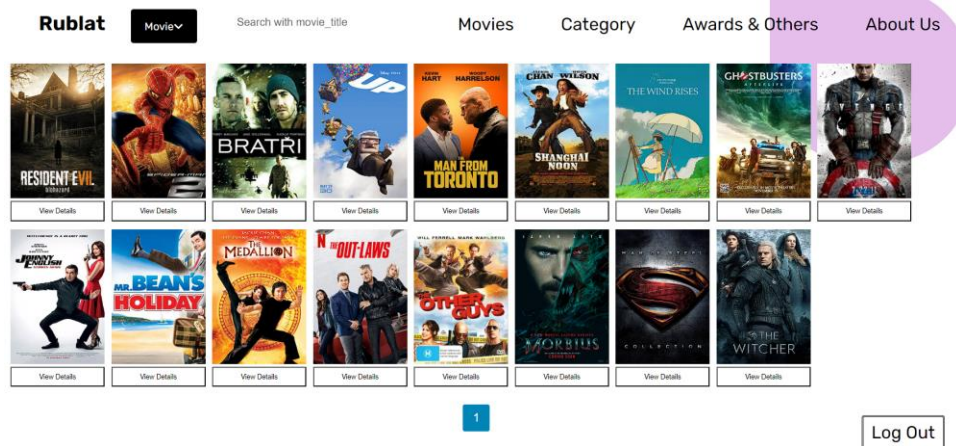


Figure 4.11 Movie Page

Figure 4.11 shows the page of the movie where you can view a paginated list of movies.

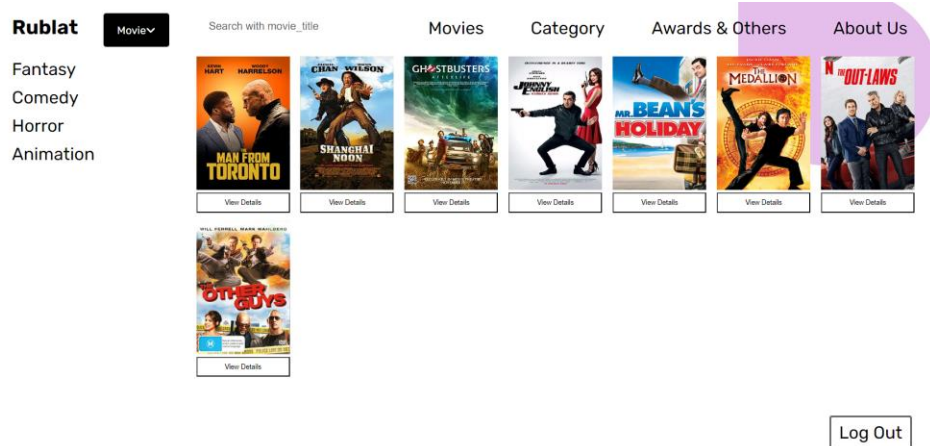


Figure 4.12 Category Page

Figure 4.12 shows a preview of the category page, which includes a side navigation menu and displays movies specific to their respective genres.

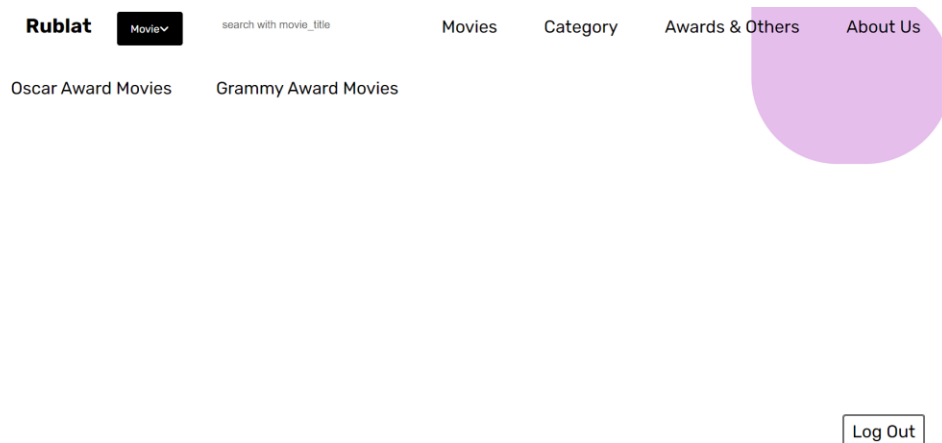


Figure 4.13 Award and Others Page

Figure 4.13 shows awards and others page. They have a movie that received an Oscar award and another movie that received a Grammy award.

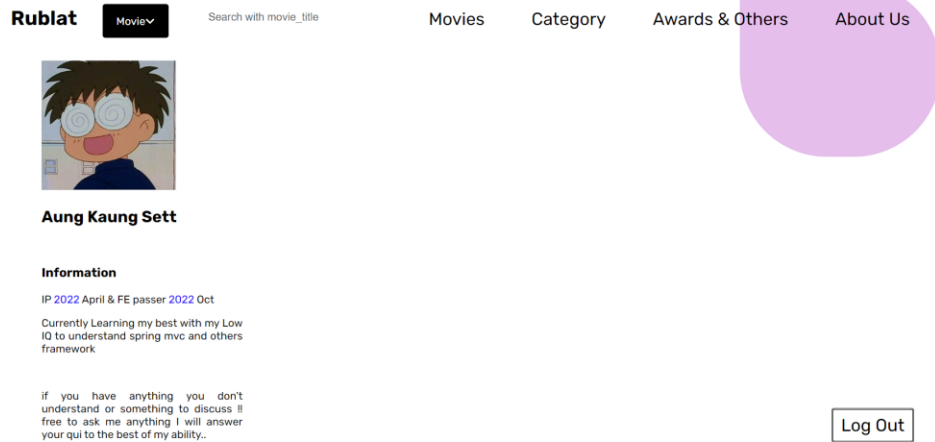


Figure 4.14 About Page

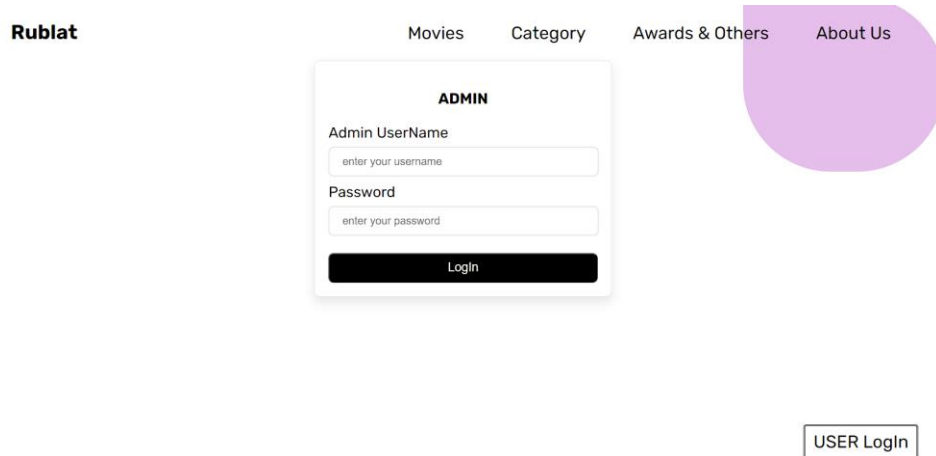


Figure 4.15 Admin Login Page

The admin login page is displayed where you can fill out the form and login to the admin system.

Rublat

Actor

Actress

Director

Actor Name

enter name

Actor image

Choose File No file chosen

birth_date

enter birth date

About

enter about

Upload

Cast Upload

Upload Movie

Customer List

Movie List

Log Out

Figure 4.16 Acotr,Actress,Director Upload Page

As shown in Figure 4.16, the admin has the ability to upload actor, actress, and director information.

Rublat

UPLOAD MOVIE

Movie Title

enter title

Movie image

Choose File No file chosen

Trailer link

enter link

Description

enter movie description

Actor_name

Select

Actress_name

Select

Director_name

Select

Genres

☐ Fantasy

☐ Horror

☐ Comedy

☐ Animation

Award

☐ Oscar

☐ Grammy

☐ None

Upload

Cast Upload

Upload Movie

Customer List

Movie List

Log Out

Figure 4.17 Movie Upload Page

To upload a movie, all the relevant information related to the movie must be filled out.

Rublat

Actor List

Actress List

Director List

Cast Upload

Upload Movie

Customer List

Movie List

Log Out

Total Register Accounts: 10

Customer List

Search user..

Q

Customer_name	Emial	Address
Aungkaung	rrocket438@gmail.com	No 90,Insein ,Ygn
ZaweBawe	kaung@gmail.com	Mdy not gonna lie
Zen	Zenleik@gmail.com	goodname
MinThwat	min234@gmail.com	mandalay
shweyate	shweawar12	Magway
kogyily	rtewrt@gmail.com	dfdfd
Zenbay	berserk34@gmail.com	mandalay
MinThet	minthu32@gmail.com	yangon
Aungkaung23	sera@gmail.com	sfsd
Chan1121	cham@gmail.com	home

Figure 4.18 Customer list Page

In the customer list page, the admin can access the registered account page to view customer details. Additionally, by clicking the respective buttons, the admin can navigate to the actor list, actress list, and director list pages. Once on these pages, the admin can edit the information related to actors, actresses, and directors accordingly.

Rublat

Total Movies: 17

Movie List

Cast Upload

Upload Movie

Customer List

Movie List

Log Out

Movie_title	Category	Actor_name	Actress_name	Director_name	Edit	Delete
Spider Man 2	Fantasy	Tobey Magurie	Kirsten Dunst	Sam Raimi	Edit	Delete
Brother	Fantasy	Tobey Magurie	Natalie Portman	James Camero	Edit	Delete
Captain America: The First Avenger	Fantasy	Chris Evan	Hayley Atwell	Joe Johnston	Edit	Delete
Morbius	Fantasy	Jared Leto	Adria Arjona	Gordon Chan	Edit	Delete
Man of Steel	Fantasy	Henry Cavill	Rosamund Pike	Sam Raimi	Edit	Delete
The Witcher	Fantasy	Henry Cavill	Mckenna Grace	Tom McGrath	Edit	Delete
Up	Animation	Avan Jogia	Jessica Chastain	Tom McGrath	Edit	Delete
The Wind Rises	Animation	Mamoru Miyano	Rie Takahashi	Sam Raimi	Edit	Delete

Previous

1

2

3

Next

Figure 4.19 Movie list Page

The movie list is displayed in Table 4.19, and the admin has the ability to edit or delete movie information as desired.

Successfully Log out from the system

[Go back to home page](#)

Figure 4.20 Log out Page

When the 'Log Out' button is clicked, all sessions related to that customer will be cleared.

CHAPTER 5

CONCLUSION

5.1 Conclusion

To summarize, a movie rating and comment system is a valuable tool for any online movie platform. It allows users to rate and review movies, which can help other users decide which movies to watch. Additionally, it provides valuable feedback for movie makers and platform administrators to improve the overall movie-watching experience. With the right implementation, a movie rating and comment system can significantly enhance the user experience and increase engagement on the platform.

5.2 limitation of the system

The limitation of a movie rating and comment system is that the ratings and comments provided by users may not always be unbiased or reflective of the actual quality of the movie. There may also be cases of fake reviews or ratings, which can mislead other users and affect their movie-watching experience. Additionally, some users may not feel comfortable sharing their opinions or may not be motivated to provide feedback, leading to incomplete or inaccurate data. Finally, the system may require constant monitoring and moderation to ensure that the content is appropriate and does not violate any guidelines or policies.

5.3 Further Extension

We, Developer aim to improve our system or project for the next project. For this system, there are many improvements needed in this system like interface part, improve rating and comment system. Moreover, The movie rating and comment system can be further extended to include more advanced features such as personalized movie recommendations based on a user's viewing history and preferences, integration with social media platforms to allow users to share their ratings and comments with friends, and the ability to sort and filter movie ratings and comments based on various criteria such as genre, release date, and rating.

REFERENCES

- <https://youtu.be/lf1Lw4pLLEo?t=2280>
- <https://docs.spring.io/spring-framework/docs/3.2.x/spring-framework-reference/html/mvc.html>
- <https://youtu.be/kfDrGriS0vg?t=2219>