

Global Movie Database

Enterprise Application Development (EAD)

Assignment - Object Relational Persistence

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This project is a web application based on hibernate framework in NetBeans. bootstrap was used for creating the user interface.

This project's class diagram and ER diagram are shown below.

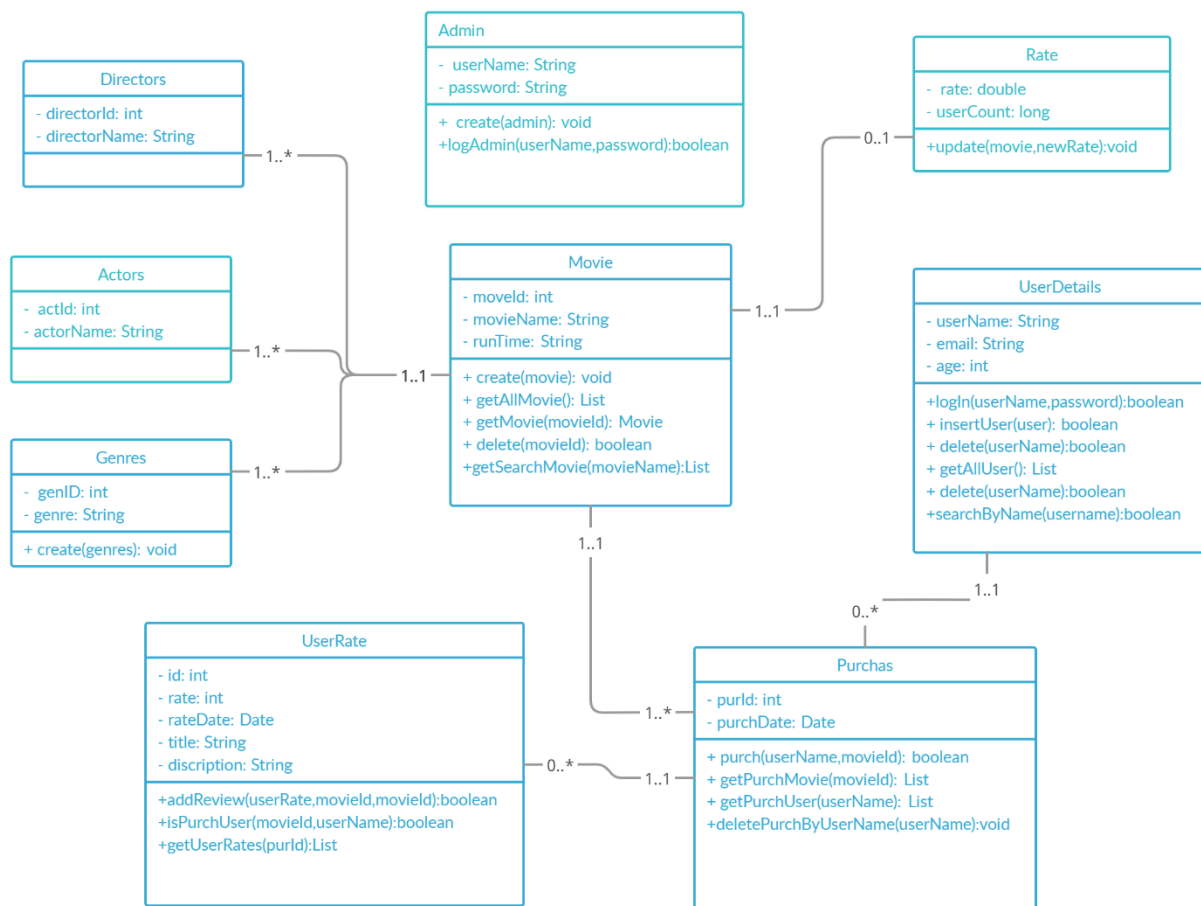


Figure 1 Class Diagram

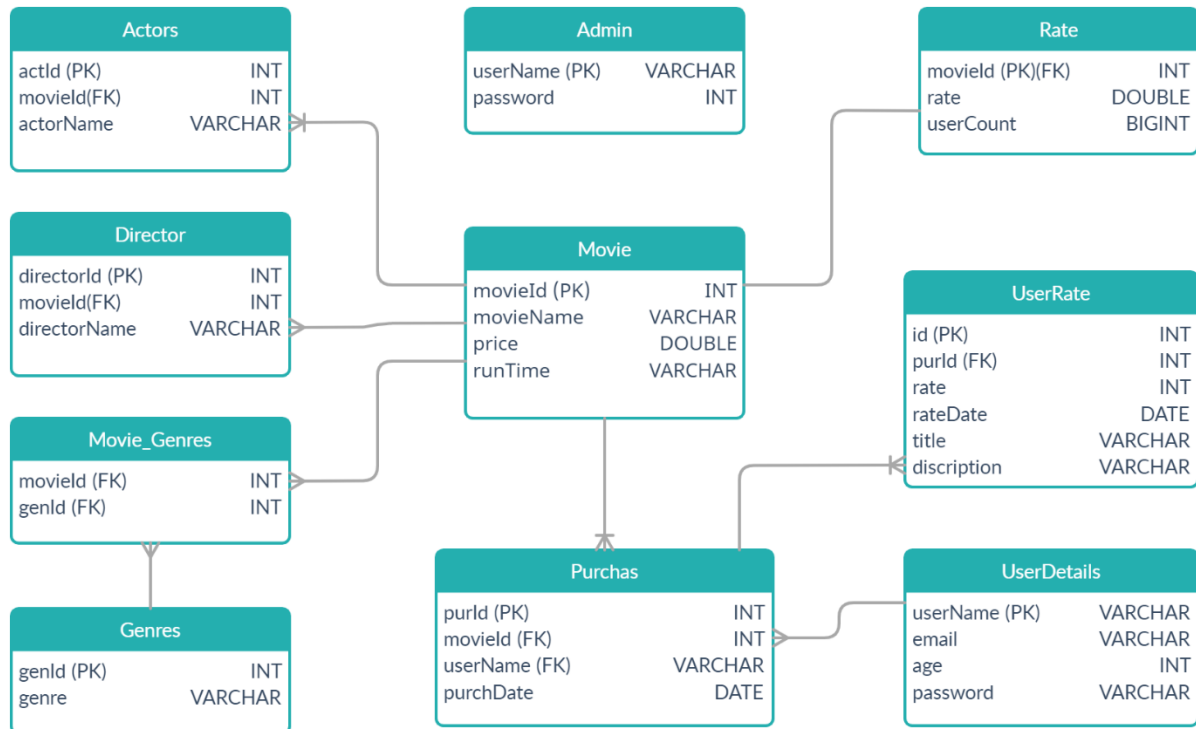
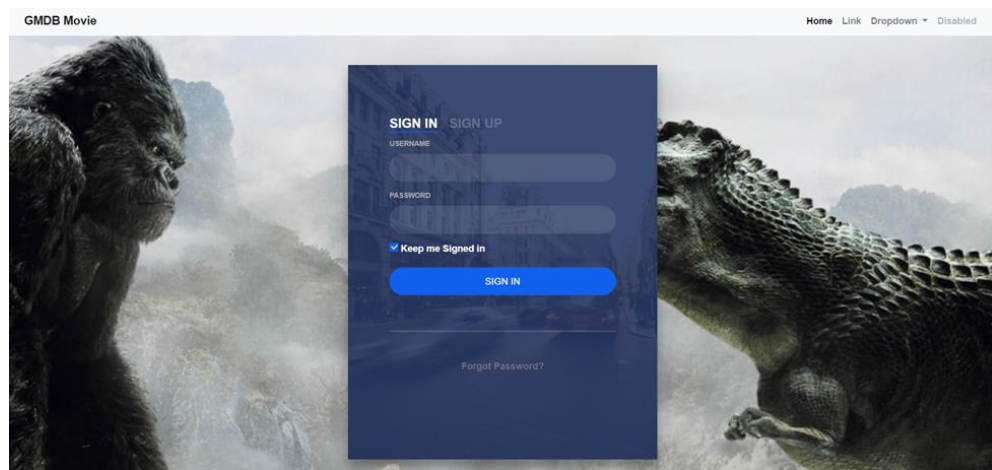


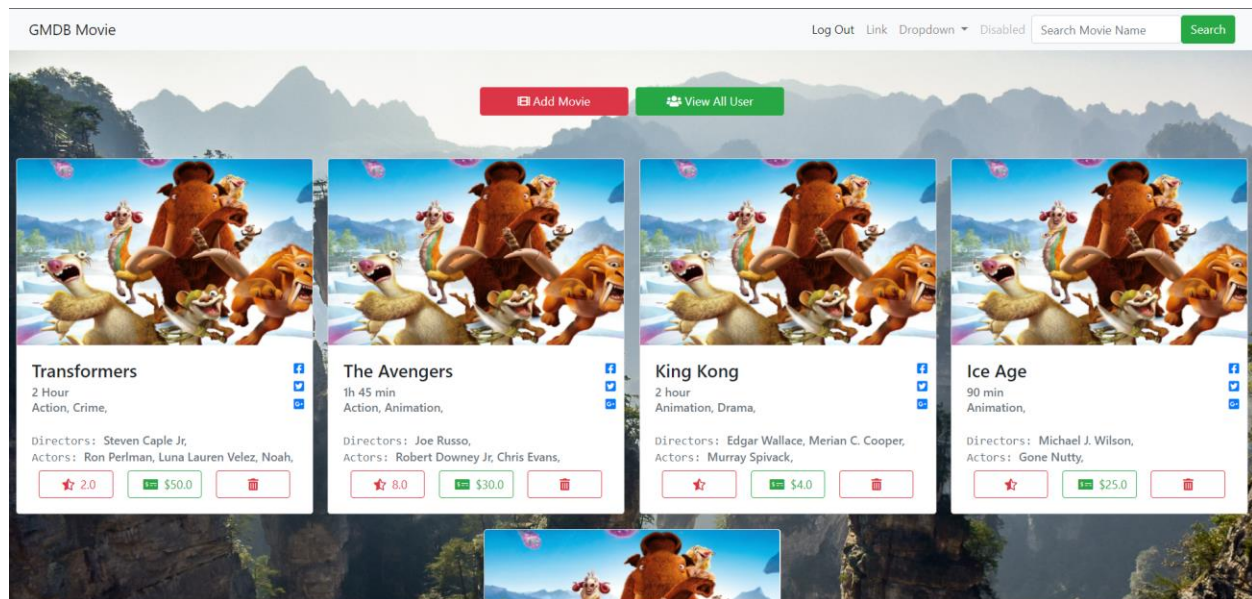
Figure 2 ER Diagram

The first user interface is we can see the sign-in and sign-up page. only users can sign up to this web app and both Admin and users can sign in using the sign-in form. That Admin was already saved in the Admin table and anyone cannot signup using the "Admin" username. when someone uses this Admin username, Error Alert comes.

Admin can sign in using "Admin" as username and "00" as password put on the sign-In form. Before sign in checks in the database that the user already saved in the userDetail table or Admin Table. If that data is equal to database data, the user can sign into the web app.

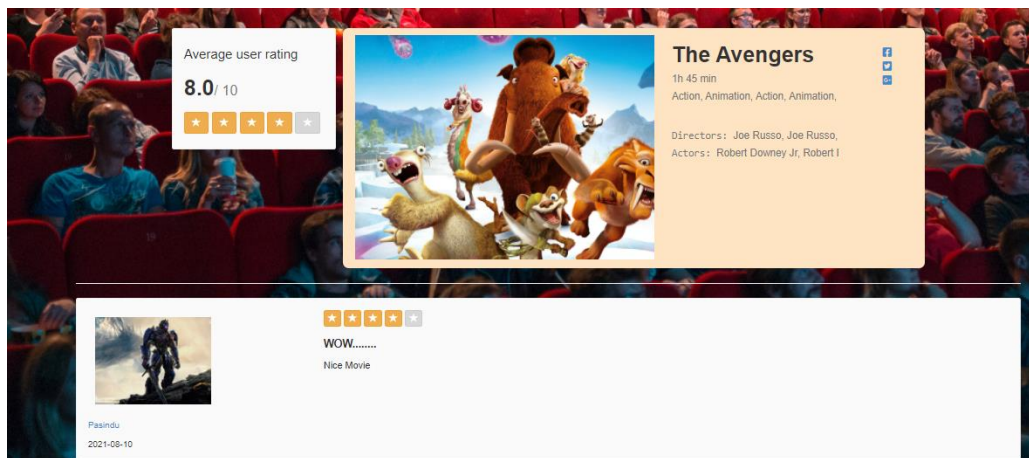


When Admin login, admin can see like that interface bellow shown.



- Admin can see all movies in the saved database and that one movie card contains all movie details like name, directors, actors, rate, etc.
- This card view was created by using a while loop that loop iterate according to a List of movie details from the movie table. That movie table contained 5 relationships. there are Directors(OneToMany), Actors(OneToMany), Genres(ManyToMany), Rate(OneToOne) and Purchas(OneToMany). Since this case was easy to fetch all data from the database. because this movie card wants all this data, So as Fetch type was created Eager type and also cascade type are vary useful to that movie details input to the database and if the Admin wants to delete a movie that case easy to do that. if Admin Wants to delete a movie, admin should click the delete button on the related movie card.
- If Admin wants to see movie purchase details, the admin can click the purchased button on the relevant movie card. In this purchase details were fetched by using movie_id from the purchase table and userDelails table. Furthermore, Admin only can view user reviews, Admin cannot rate the movie.






- That review Ui contains the average rate value of each movie and user comments, user rate, user name, and user rated data.



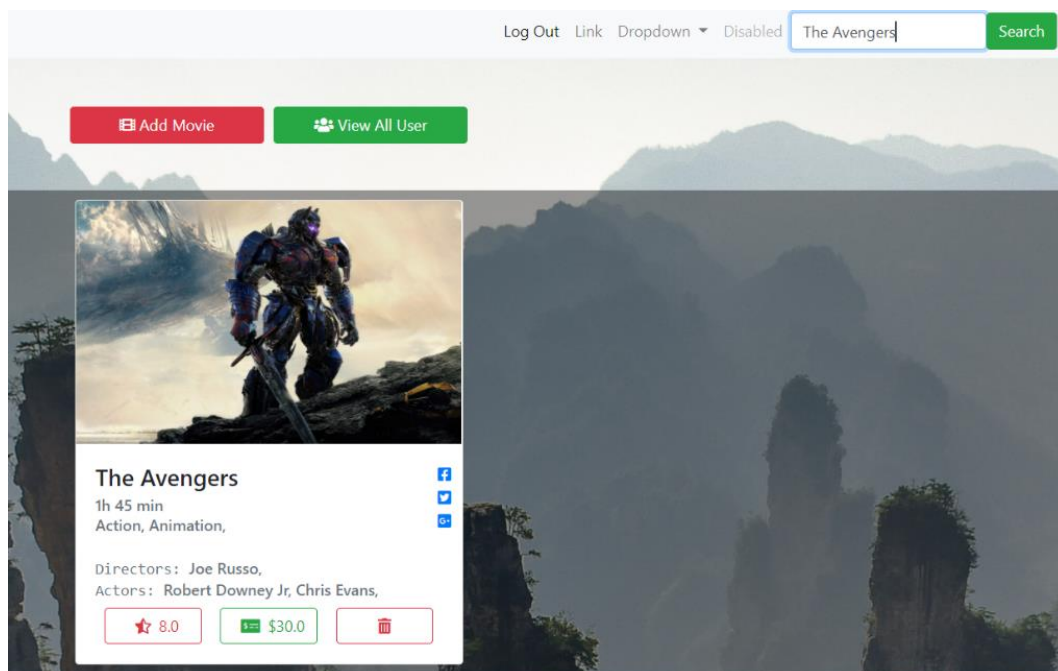
- Admin UI has Add Movie button to add a new Movie. when click this button, the admin can see adding movie form. that form has two buttons like add directors, add Actors. Admin can use these button for adding many Actors and Directors. From Geners checkboxes can input movie's genre type. when click save button, all data set to move object and save in the database.

A screenshot of the 'Add Movie' form in the Admin UI. The form is a dark gray modal box with a white border, set against a background of a mountain landscape. At the top, there are two buttons: 'Add Movie' (red) and 'View All User' (green). The form contains several input fields: 'Enter Film Name', 'Enter Film Run Time (45 min.)', 'Enter Film Purchase Price in US Dollars', 'Enter Film Direcor Name' (note the typo), and 'Enter Film Actor Name'. There are two yellow buttons labeled 'Add Director' and 'Add Actor'. Below the input fields, there are checkboxes for genres: Action, Animation, Comedy, Crime, Drama, Horror, and Other. At the bottom, there are two buttons: 'Submit' (blue) and 'Cancel' (red).

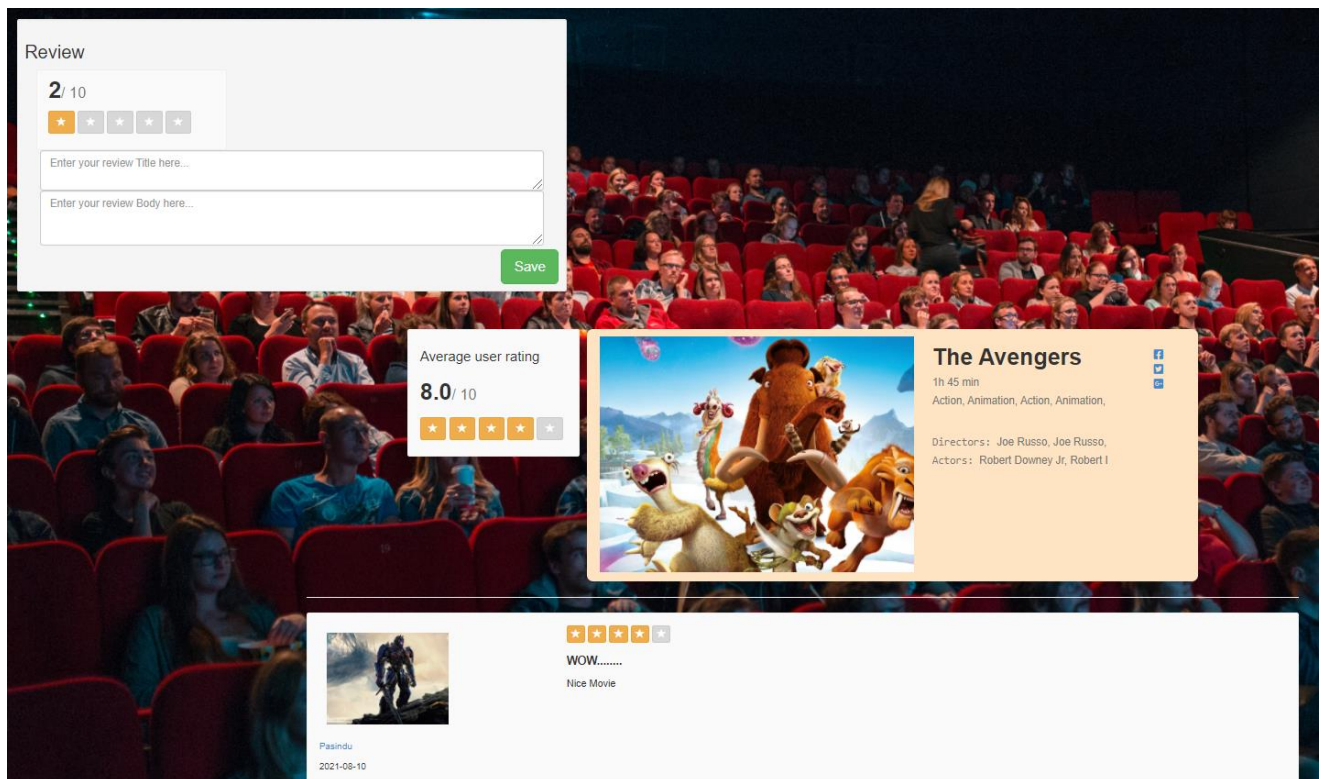
- Another function of admin can view all user's List of registered in this web application. This List contains the username, age, email, and each user purchase at least one more or not. Also, that list has a delete button for delete relevant users.

	User Name	User Email	User Age	is Purchased User	
1	Pasindu	pasindu@gmail.com	25		Delete
1	Desha	desha@gmail.com	24		Delete
1	Kasun	kasun@gmail.com	30		Delete
1	Amila	amila@gmail.com	35		Delete

- The header bar has a search bar, that uses to search movies from movie names. And header bar has a Logout button when. when clicking the button, the admin or user can logout. in this case when the user login that user's username and password and other needed data are set to the session attribute. when clicking the logout button all these data destroy from the session.



- When the user login into the user account using username and password, check all data match with database data, and after allow permission to login user Interface. then the user can view all of the movies in the card view and if the user wants to search for a movie, the type search movie name on the search bar.
- The card view contains all movie details with two buttons like to purchase that movie and view to rate. That rate button shows the average rating value. when clicking this rate button opens a new window. if the user has not purchased that movie, in that window does not showing the user rating form. only show already other users' ratings and comments and other details.



- when a user rating to the movie, that movie rate value save in the user Rating table and goes to the Rate table, that Rate table has three columns like movieId, average rate, and a number of users rate movie. When a user rates a movie, the average rated value is calculated and after all, calculate data are updated in this Table.