IT 309 SOFTWARE ENGINEERING

PROJECT DOCUMENTATION

Movie-Review platform

Prepared by:
Zara Bahtanović

Proposed to:
Nermina Durmić, Assist. Prof. Dr.
Aldin Kovačević, Teaching Assistant

21.06.2023

TABLE OF CONTENTS

Contents

1. Introduction

1.1. About the Project

My project is a movie-review platform. I thought this would be an interesting topic to take on and would be a great way to get a better understanding of web development and software engineering. The project is designed to be a simplified version of IMDb. The platform allows users to search for movies, read and write reviews, and add films to their personal watchlist. While it doesn't support movie ratings or personalized recommendations yet, the watchlist feature enables users to curate their own collection of movies they want to watch, providing a convenient way to plan their movie-viewing experiences.

Link: https://whale-app-n3rc6.ondigitalocean.app

1.2. Project Functionalities and Screenshots

- Search Movies: Easily find movies by their title.
- Watchlist: Create a list of movies you want to watch and manage it by adding or removing films.
- Account Creation: Sign up to access features like having a watchlists and being able to leave reviews.
- Write and Delete Reviews: Share your thoughts on movies and delete your own reviews if needed.
- Read Others' Reviews: Explore reviews written by fellow users to discover different perspectives.

2. Project Structure

2.1. Technologies

In this project, I have used the following technologies:

Backend:

- LAMP stack: The backend of the application is built using the LAMP stack, which stands for Linux (operating system), Apache (web server), MySQL (database management system), and PHP (server-side scripting language). These components work together to handle server-side processing and database interactions.

Frontend:

- HTML: I used HTML (Hypertext Markup Language) to structure the content and layout of the web pages.

- CSS: CSS (Cascading Style Sheets) was used to add styling and enhance the visual presentation of the web pages.
- jQuery: The jQuery library was utilized for simplified and efficient client-side scripting tasks, enabling dynamic interactions and manipulation of the HTML elements.

Database:

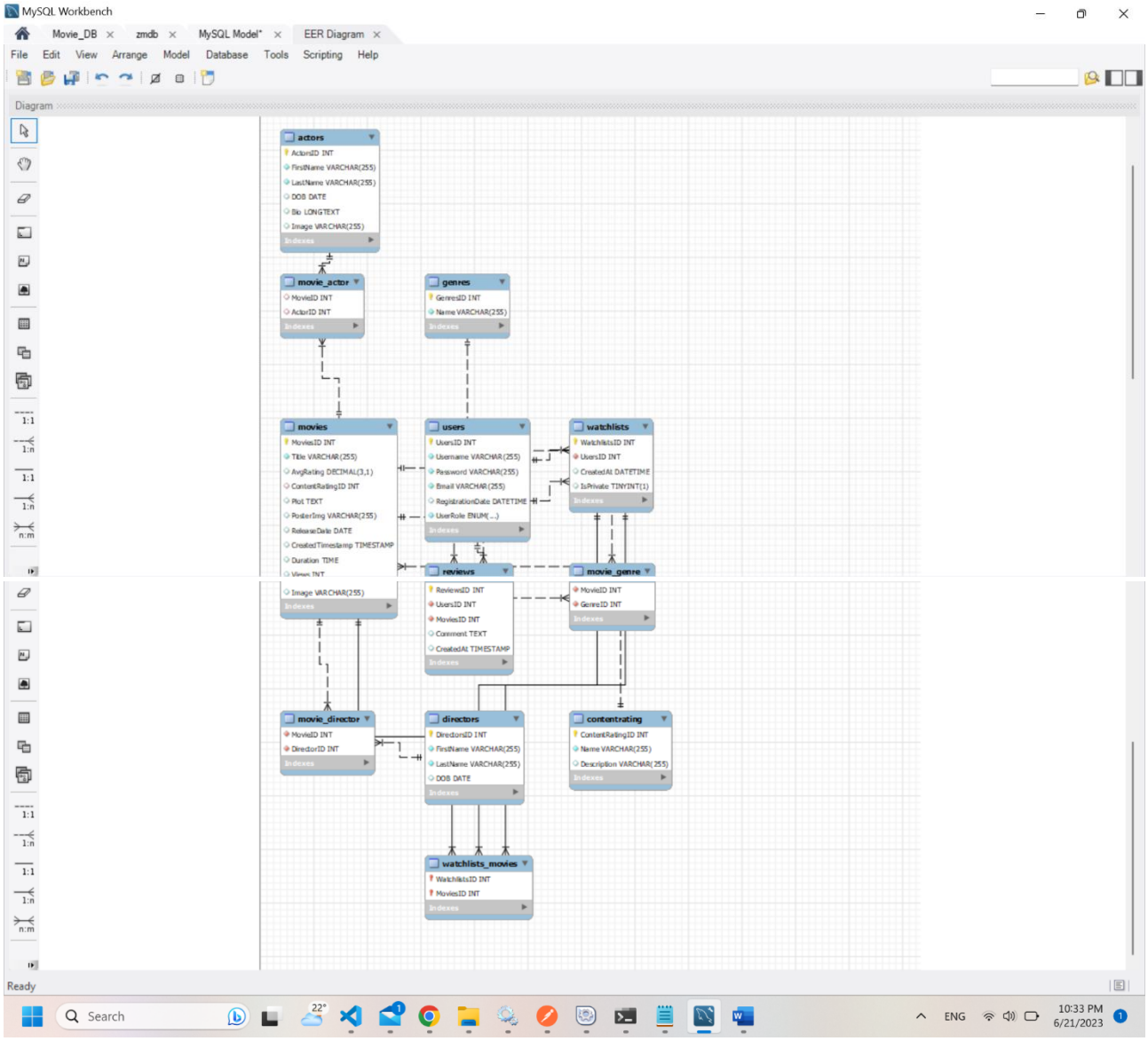
- SQL: I used SQL (Structured Query Language) for managing the database.

Additional technologies or tools:

- Bootstrap: Bootstrap is a popular CSS framework that provides pre-built responsive design components and styles, offering a consistent and visually appealing user interface.

2.2. Database Entities

The screenshot below showcases the database design for my project. It offers a visual representation of all the tables and their corresponding attributes. By looking at the picture, it obvious that it is very easy to understand and identify the different entities involved in the system. Each table's attributes are clearly displayed, allowing for a clear understanding of their purpose and relationships within the database.



2.3. Design Patterns

In my project I used two design patters:

- Singleton – /Database.class.php
- DAO - /dao/..

2.4. Tests

For my testing I have used PHP Unit. The test can be found in /tests folder in the root/
I have tested mostly methods used in the rest/dao to verify their correct implementation.

3. Conclusion

Truthfully, I am not entirely satisfied with the current state of my project. As with any project, there are always areas that could be improved upon in the future, but I do view it as a promising starting point. The foundation has been laid, and there is huge potential for further development and the addition of more advanced functionalities.

One aspect that stood out as challenging was the rendering of data with JavaScript. There were instances where the behavior of data rendering seemed unusual or unexpected, which is something I would prioritize addressing and refining in subsequent iterations. By focusing on enhancing the data rendering process, the overall user experience can be greatly improved. Also, a big issue I encountered was actually deploying my application and getting request since I keept getting 503 and 504 errors.

Moving forward, I am excited to build upon this project, incorporate additional features and make it a more enjoyable experience.