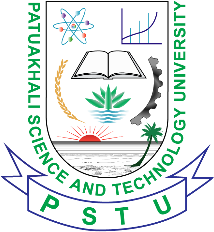
Faculty of Computer Science & Engineering

Project Report on

Online Movie Streaming Website



**Course Code: CIT-220**

**Course Title: Web Programming Project**

**Submitted by**

Md. Rakibul Islam ID: 1802073

Reg: 08483

Level – 2 Semester – 2

Session : 2018-19

**Submitted to**

# Md. Mahbubur Rahman

Assistant Professor

Department of Computer Science and Information Technology Patuakhali Science and Technology University

# Md. Atikqur Rahaman

Associate Professor

Department of Computer Science and Information Technology Patuakhali Science and Technology University

# Table of Contents

1. [Project Overview 3](#_TOC_250012)
2. [Objective 3](#_TOC_250011)
3. [Requirements 4](#_TOC_250010)
   1. Hardware Requirements 4
   2. Software Requirements 4
   3. Requirement Analysis 5
4. [System Analysis 6](#_TOC_250009)
   1. [Data-Flow Diagram (Admin) 6](#_TOC_250008)
   2. [Data-Flow Diagram (User) 7](#_TOC_250007)
   3. [Entity-Flow Diagram 8](#_TOC_250006)
5. [System Design 9](#_TOC_250005)
   1. [Features 9](#_TOC_250004)
   2. [User Login Sequence 9](#_TOC_250003)
   3. Movie Viewing Sequence 10
   4. [Add Movie Sequence (Admin) 10](#_TOC_250002)
   5. Project Showcase (Front-End) 11
   6. Project Showcase (Back-End) 15
6. [Coding 16](#_TOC_250001)
   1. File Structures 16
7. [Conclusion 17](#_TOC_250000)

**Project Name**

**Online Movie Streaming System**

## Project overview:

Watching movies became our part of life. This movie streaming site facilitates the movie lovers to watch movie on online platform with free of cost. One can use this site to watch their favorite movies with a simple click of a button.

## Objective:

The objective is to entertain the end-user. The goals are to design and develop a database for end-user to watch their favorite movies. One can visit the website and browse their favorite movies and watch that together with their family & friends. Also, there must be an admin who add or delete movies from database as per user needs. We will design the interface of the streaming website and then add the database in the system. Also, we will add authentication system so that our server doesn’t get unsecured.

It helps inform moviegoers about what they should expect from a particular movie they may want to watch. Creating a website whose primary purpose is movie criticism can be a very rewarding choice. This is because it gives moviegoers a place to turn to at any time of day.

## Requirements:

### Hardware Requirement:

* + 1. Laptop or PC:
       1. i3 processor system or higher
       2. 4 GB RAM or higher
       3. 100 GB ROM or higher
    2. Hosting Server:
       1. 100mb Data Storage
       2. One Domain
       3. Database server

### Software Requirement:

* + 1. Code:
       1. HTML
       2. CSS
       3. PHP
       4. JAVASCRIPT
       5. Additional Framework like (Bootstrap)
    2. Development tools
       1. IDE (VS code)
       2. Sustainable Environment Like (Win-10 64-Bit)
    3. Web Server
       1. MYSQL SERVER (for deploying the application and establish the relational-database connections)

## Requirements Analysis:

**HTML:** The Hypertext Markup Language or HTML is the standard markup language for documents designed to be displayed in a web browser. It can be assisted by technologies such as Cascading Style Sheets and scripting languages such as JavaScript.

**CSS:** Cascading Style Sheets is a style sheet language used for describing the presentation of a document written in a markup language such as HTML. CSS is a cornerstone technology of the World Wide Web, alongside HTML and JavaScript.

**PHP:** PHP is a general-purpose scripting language geared toward web development. It was originally created by Danish-Canadian programmer Rasmus Lerdorf in 1994. The PHP reference implementation is now produced by The PHP Group.

**JavaScript:** JavaScript (JS) is a programming language that is one of the core technologies of the World Wide Web, alongside HTML and CSS. As of 2022, 98% of websites use JavaScript on the client side for web page behavior, often incorporating third -party libraries. It is a lightweight, interpreted, or just-in-time compiled programming language with first-class functions. While it is most well-known as the scripting language for Web pages, many non- browser environments also use it, such as Node.js, Apache CouchDB and Adobe Acrobat.

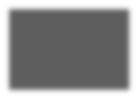
**Bootstrap:** Bootstrap is a front-end framework used for easier and faster web development. It includes HTML and CSS based design templates for typography, forms, buttons, tables, navigation, modals, image carousels and many others. It can also use JavaScript plug-ins. It facilitates you to create responsive designs. It is a free and open-source CSS framework directed at responsive, mobile-first front-end web development. It contains HTML, CSS and JavaScript-based design templates for typography, forms, buttons, navigation, and other interface components.

**MySQL:** MySQL is an open-source relational database management system. Its name is a combination of "My", the name of co-founder Michael Widenius's daughter, and "SQL", the abbreviation for Structured Query Language

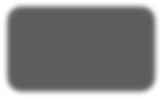
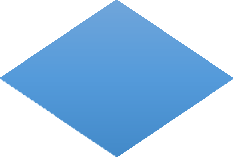
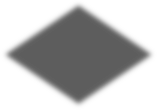
**VS code:** Visual Studio Code, also commonly referred to as VS Code, is a source-code editor made by Microsoft for Windows, Linux and macOS. Features include support for debugging, syntax highlighting, intelligent code completion, snippets, code refactoring, and embedded Git

## System Analysis:

### ​Data-flow Diagram (ADMIN):



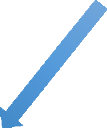
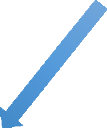
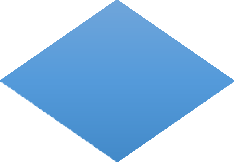
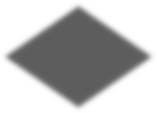
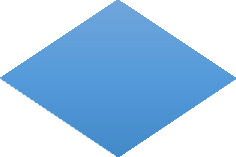
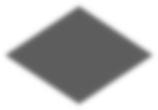
**ADMIN**



**Website Owner**

**Login**

**HomePage**



**HTML, CSS, PHP, JS**

**Add**

**Movie**

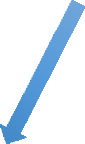
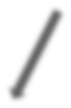
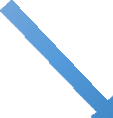
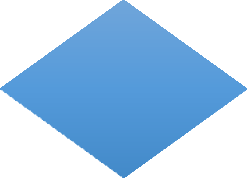
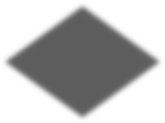
**Delete**

**Movie**

**Movie**

**Storage**

**MySQL**



**Delete**

**User**

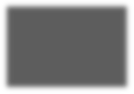
**USER**

**Storage**

**MySQL**

Fig: DFD for Admin

### ​Data-flow Diagram (USER):



**USER**

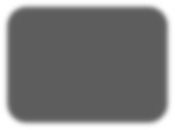
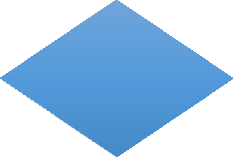
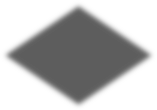
## Normal User

**USER**

**Storage**

**MySQL**

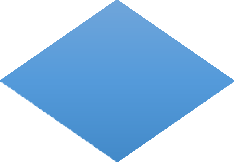
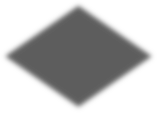
## HTML, CSS, PHP, JS



**Authentication**

**Login**

**Homepage**



**View**

**Movie**

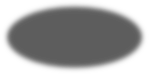
**Movie**

**Storage**

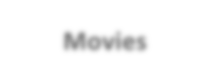
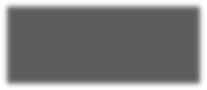
**MySQL**

Fig: DFD for Normal User

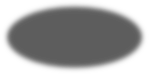
### ​Entity-flow Diagram:



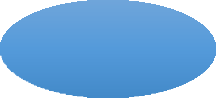
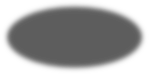
**Horror**



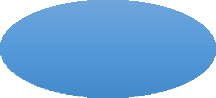
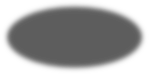
**Movies**



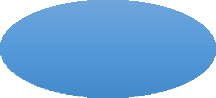
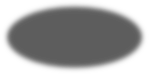
**Action**



**Comedy**

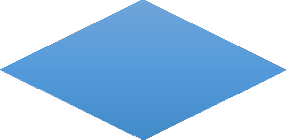
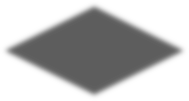
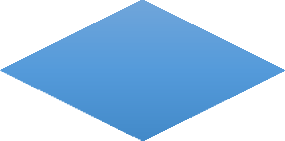
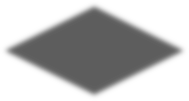
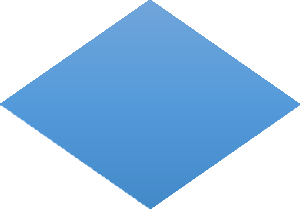
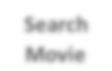
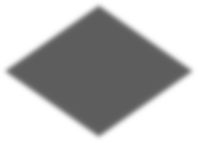


**Drama**



**Thriller**

Fig: ERD of Movie Streaming System

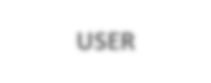
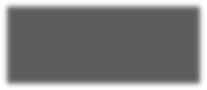


**Genre**

**Year**

**Search**

**Movie**



**USER**

## System Design:

### Features:

* + 1. User can easily watch their favorite movies
    2. No ads
    3. User friendly Registration-Login System
    4. Admin can view all registered user
    5. Admin can view all Movie uploaded to the website
    6. Admin can delete & add movies to the website
    7. Admin can delete any user
    8. Admin can generate movie list & user list to PDF for documented purpose

### User Login Sequence

## Login screen

**Database User Table**

**Database User Table**

**Fetch Website From Server**

Fig: Sequence diagram for User Login

**Enter**

**Username Password**

**Validate**

**User name ()**

**Validate**

**Password ()**

**Match**

**Credentials**

**Website**

**Homepage**

* 1. **Movie Viewing Sequence (User)**

## Homepage

**Select**

**Movie**

**Validate**

**Movie name ()**

**Found**

**MovieName ()**

**Fetch Movie list From Database**

**Fetch Movie Metadata From Database**

**Database User Table**

**Found Movie File**

Fig: Sequence diagram for User Movie View

**Showing Movie**

### Add Movie Sequence (Admin)

## Login screen

**Database User Table**

**Fetch Website From Server**

**Database Movie Table**

Fig: Sequence diagram for Adding Movie

**Enter Admin**

**Username Password**

**Validate**

**User name ()**

**Validate**

**Admin ()**

**Add**

**Stored**

**Movie**

**Metadata**

**Movie Metadata**

* 1. **Project Showcase (Front-end):** Using HTML, CSS, PHP, JS

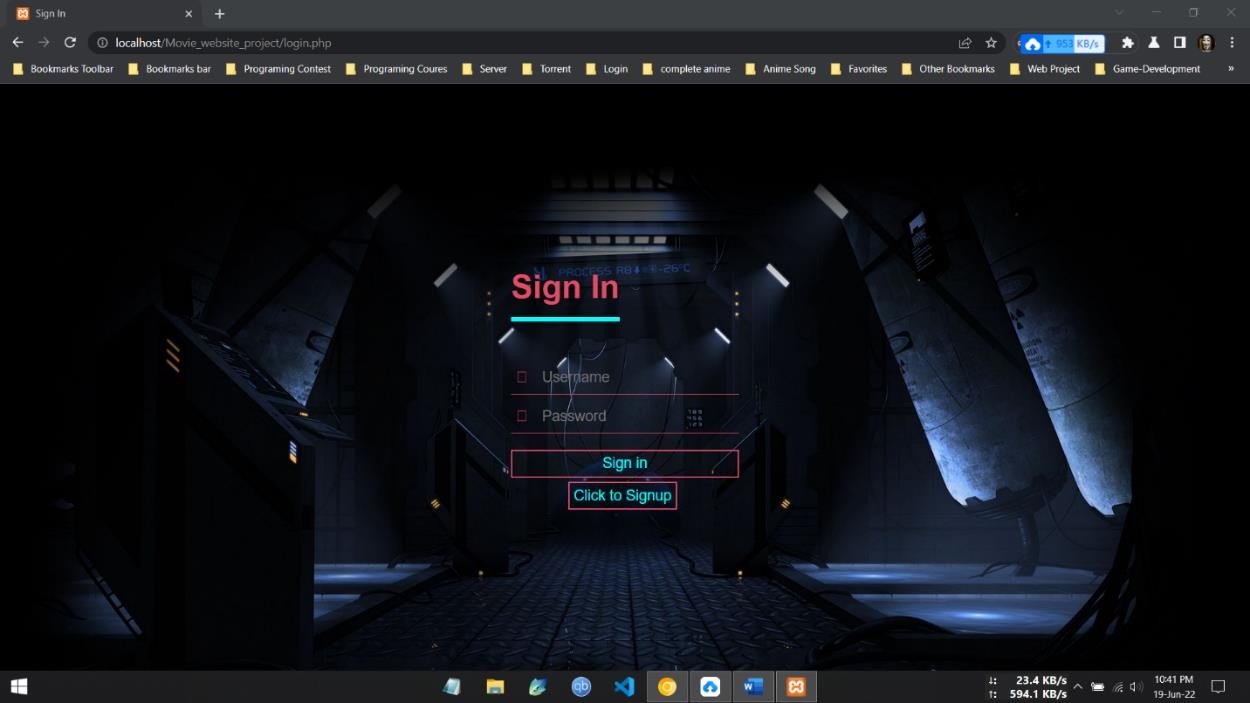


Fig: Login Page

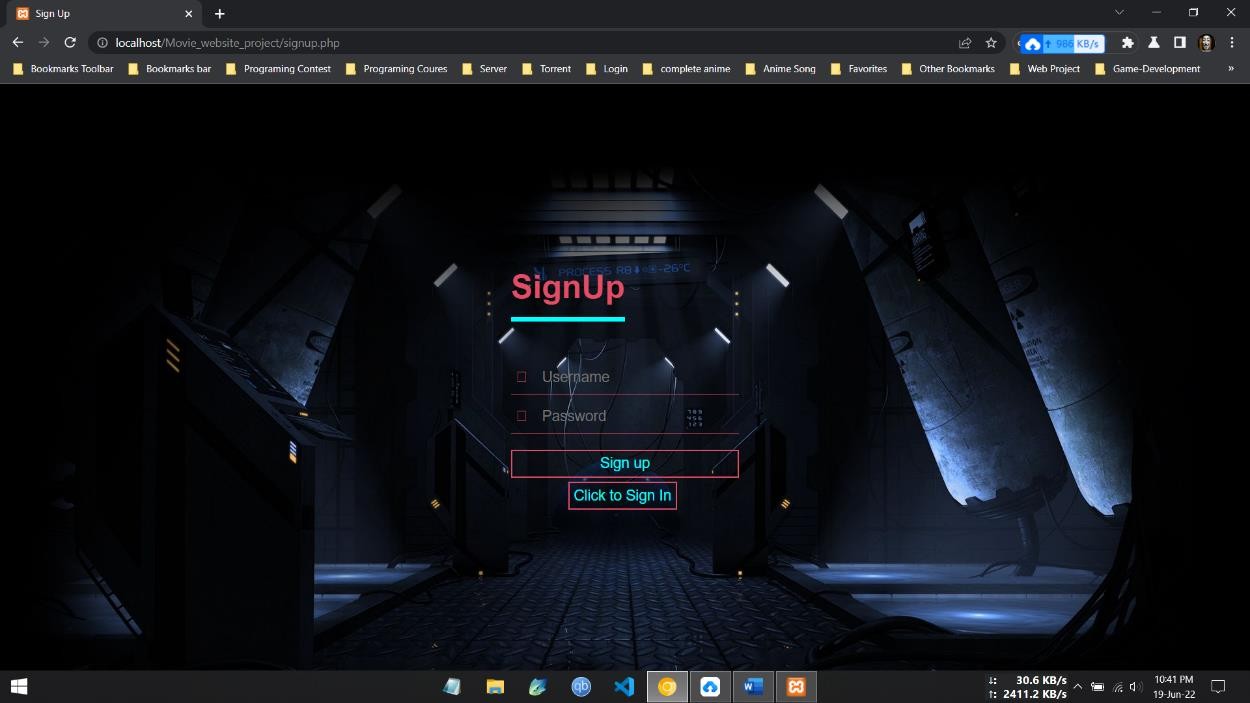


Fig: Registration Page

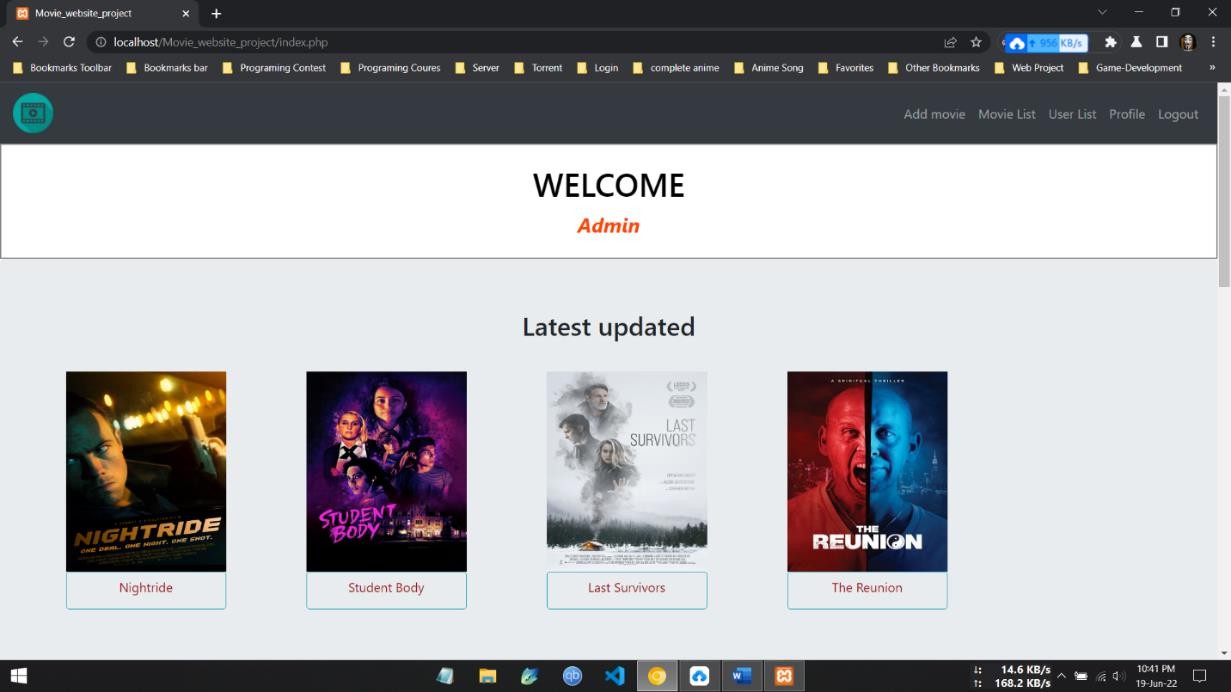


Fig: Admin Homepage

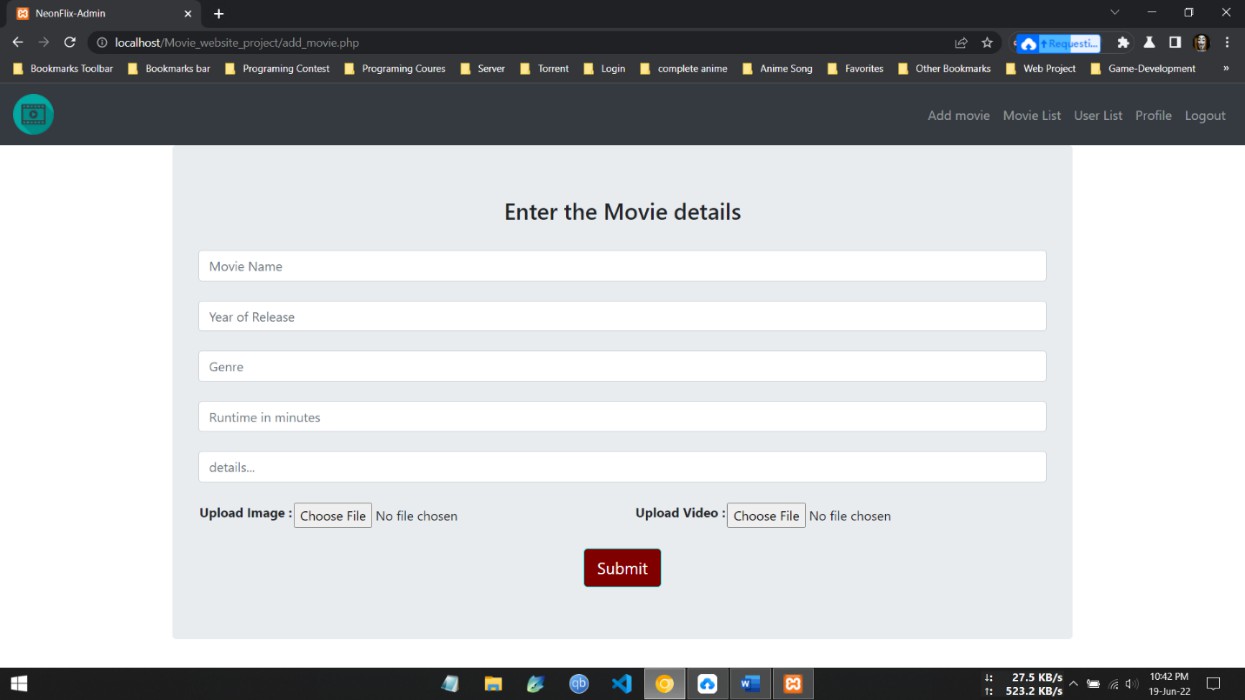


Fig: Add Movie Page

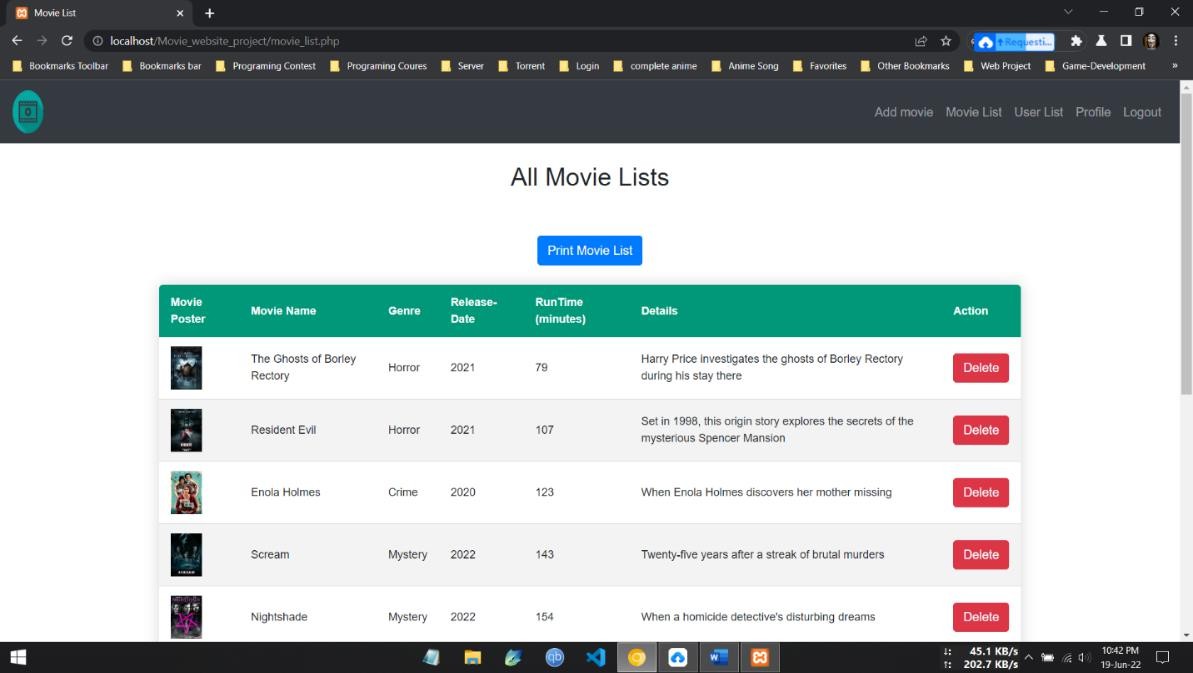


Fig: Movie List Page

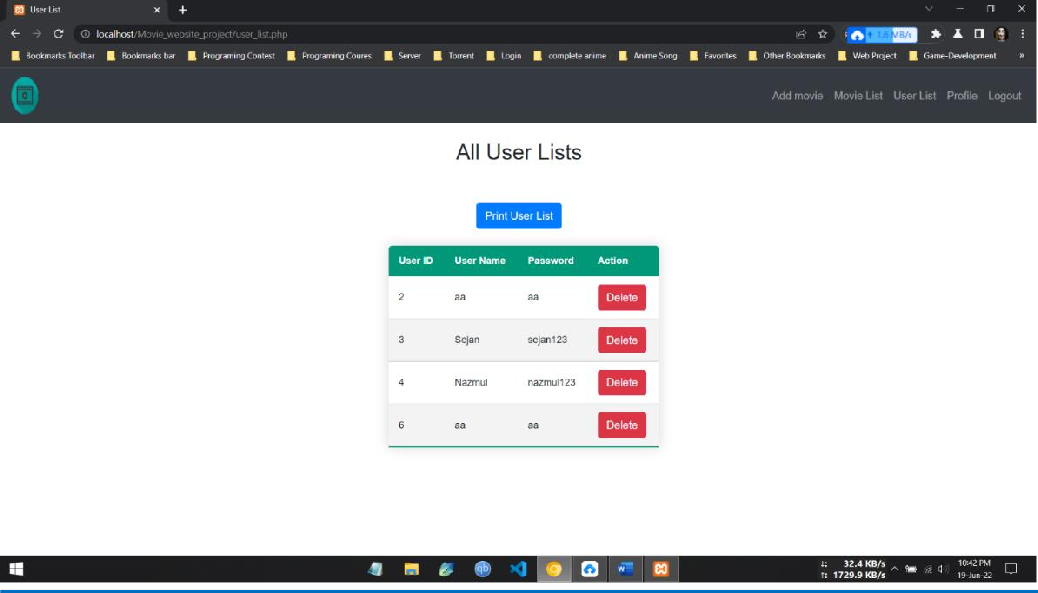


Fig: User List Page

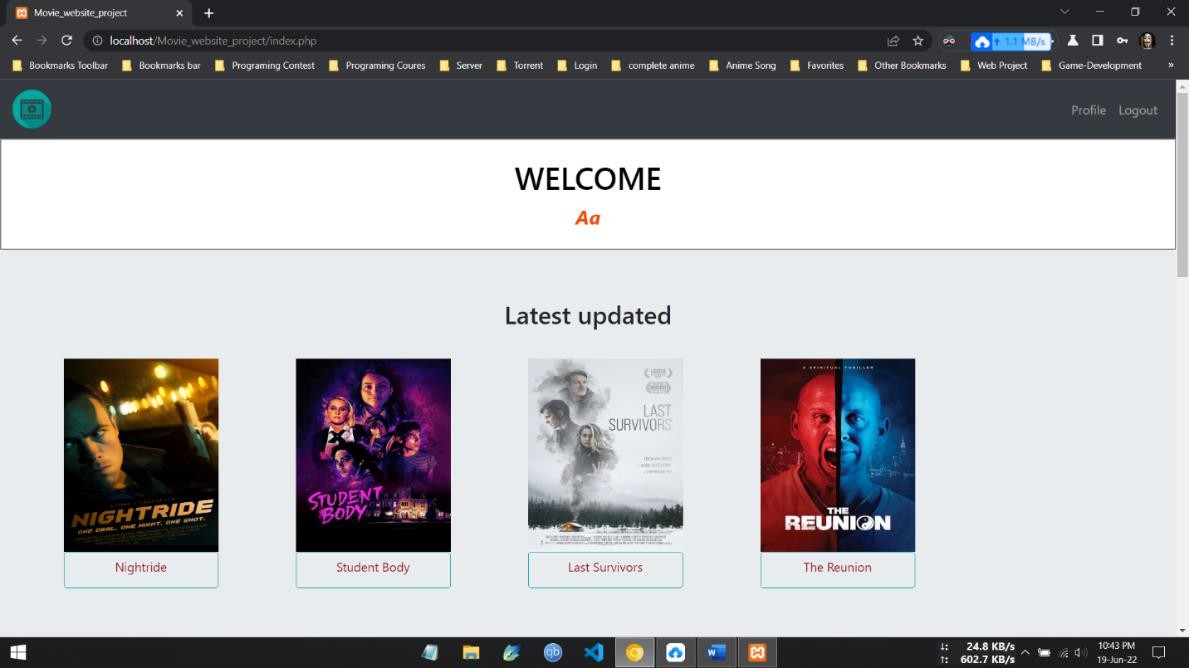


Fig: Normal User Homepage

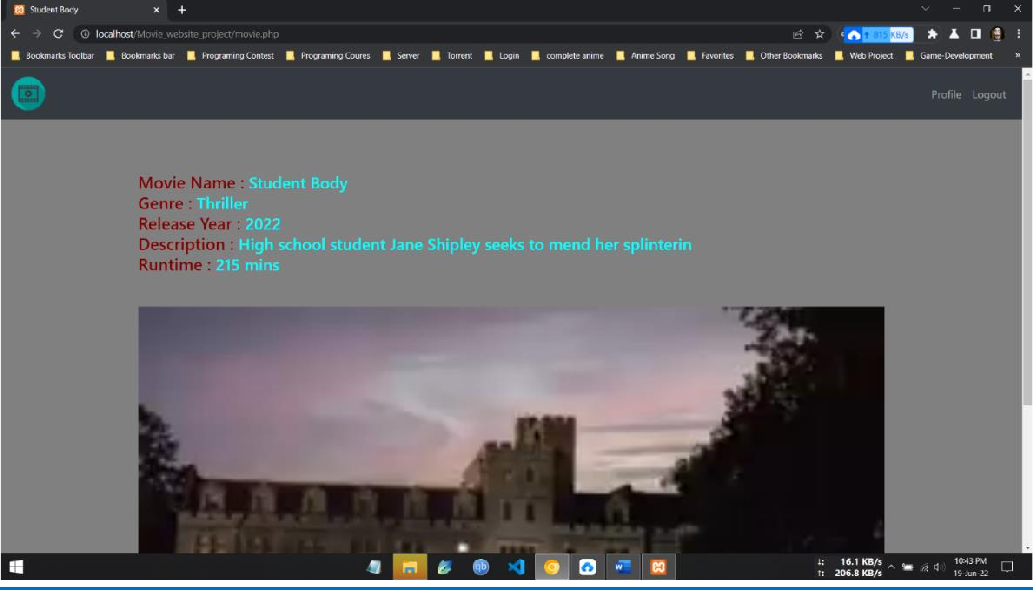


Fig: Movie Viewing Page

## Project Showcase (Backend): MySQL

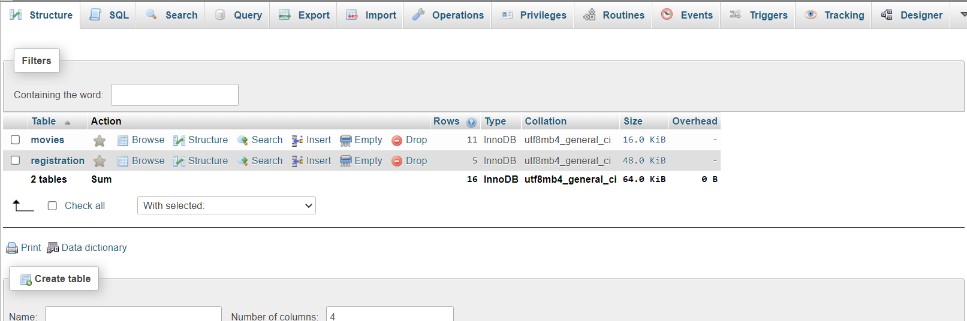


Fig: All Database Table

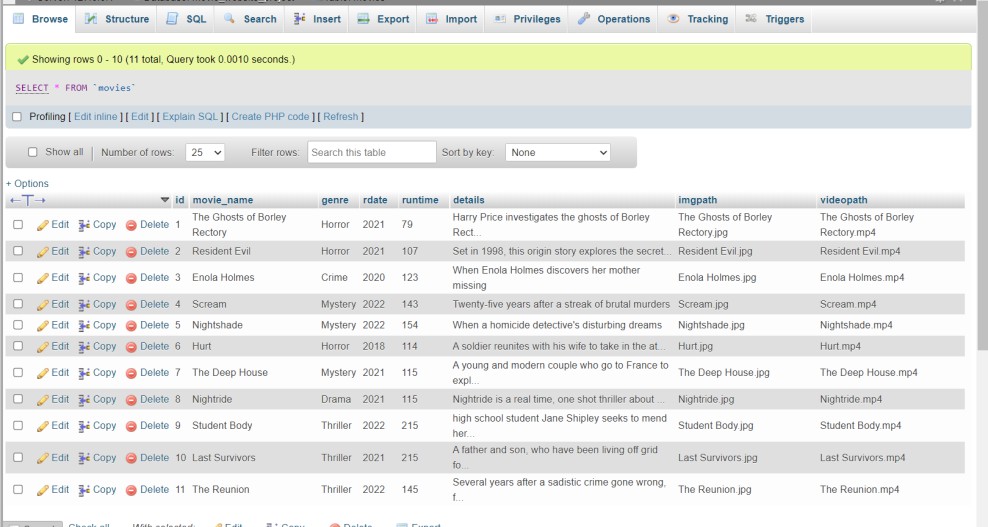


Fig: Movie Table

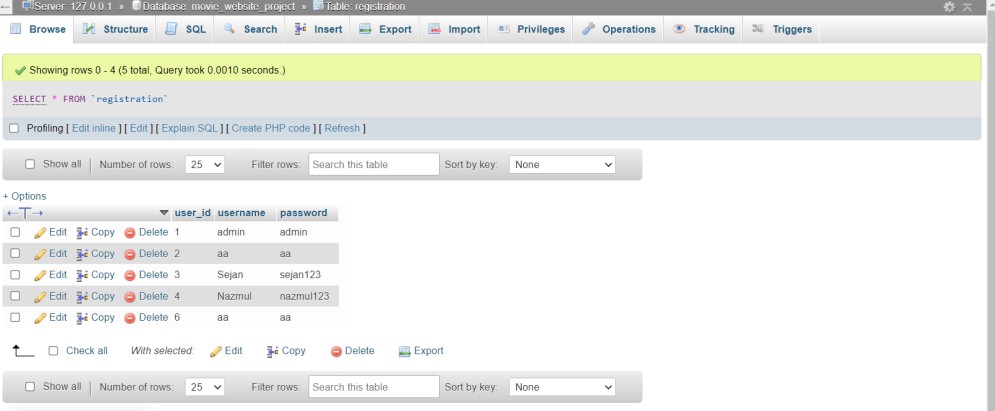


Fig: User Table

## Coding:

* 1. **File-Structure:** from VS Code

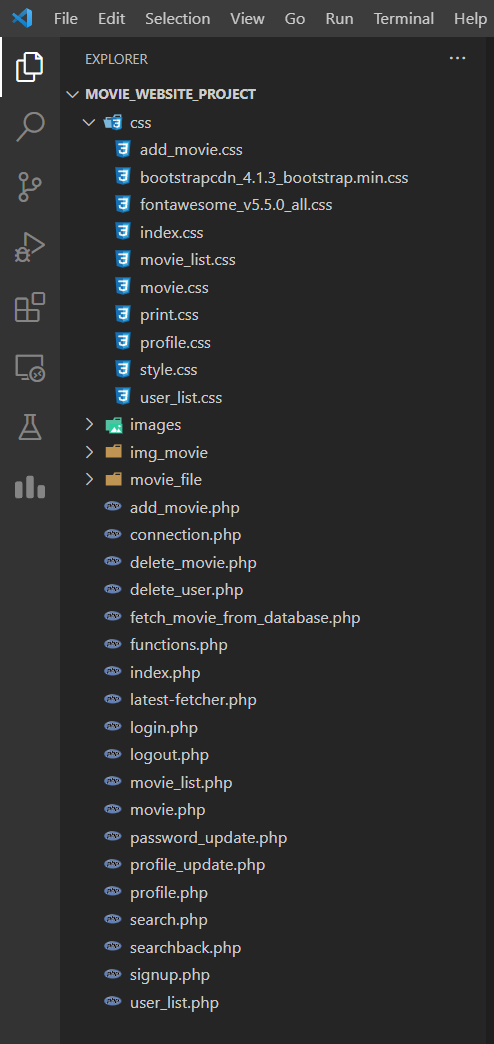


Fig: File structure of coding

## Conclusion

The entire Online Movie Streaming project has been developed and deployed as per the requirements stated by the Proposal, it is found to be bug free as per the testing standards that is implemented. Any specification-untraced errors will be concentrated in the coming versions, which are planned to be developed in near future. The system at present does not take care of the money payment methods, as the consolidated constructs need SSL standards and are critically to be initiated in the first phase, the application of the credit card transactions is applied as a developmental phase in the coming days. The system needs more elaborative technicality for its inception and evolution.