

AY23/24 Semester 1  
C203 Web Application Development in PHP  
Graded Assignment Specification

## Introduction

The purpose of this assignment is to understand and apply the knowledge of website development to develop a working web application in PHP that stores and retrieve data to/from a database server. The theme of the project is Movie Review and should contain the following basic features:

### 1. User Registration (L01 – L03, L05)

You will create a registration page that prompts user to enter at least the following information:

- Username (for log in)
- Password (for log in)
- Name
- Date of Birth
- Email Address

When the user clicks on the “Register” button, the information entered by the user will be stored into the database.

#### Advanced Features

- Registered users can log in to their account to update their user information (E.g. password, address, etc)
- Users can choose to delete or deactivate their account

### 2. User Login (L09)

You will create a page for users to log in to the website. The website will prompt the user to enter the following information to log in:

- Username
- Password

When user clicks on the Login button, the username and password entered by the user are checked against the database, If the username and password is found (and matches) in the database, the login is successful. Otherwise, the system will display an error message which says “Login is not successful, please try again!”.

#### Advanced Features

- Upon a session login, display user’s username at the top of the page (E.g. “Welcome, Peter!”)
- Allow users to click on “Forgot password” link and send an email to user’s email address with a link for user to reset password.

### 3. Display List of Movies (L05)

Create a main page that displays all the movies from the database. The following Movie information should be displayed:

- Movie Title
- Picture of Movie Poster
- Genre
- A hyperlink that displays more information of the Movie (E.g. Cast, Director, Synopsis, reviews etc)

#### **Advanced Features**

- Sort and categorize the Movies (E.g. genre, ratings, etc)
- Users can search for movies by typing the movies name in a search bar

### 4. Movie Reviews (L05, L08)

Display the reviews of selected movies in a new page when user clicks on the “Reviews” hyperlink. The following movie review information should be displayed:

- Username of the user who left the review
- Contents of the review
- Time and date when the review was posted
- Rating of the movie

Users should be able to write/edit/delete reviews.

#### **Advanced Features**

- Users are only able to edit or delete their own posted reviews.
- Users must be logged in before they can write/edit/delete reviews.

**Important note**

\*\*\* You are free to implement other advanced features that are not listed above. \*\*\*

This graded assignment consists of THREE parts:

1. **Part 1** is to develop and submit the web application with GUI and screen interactivity using HTML, Bootstrap and CSS to LEO2.0
2. **Part 2** is to develop and submit the web application with GUI, screen interactivity and database integration to SA2.0.
3. **Part 3** is to present your work and attend an interview session.

**Note:**

- a. This is an individual project
- b. You are to design, develop, test and implement the web application using only HTML, PHP, BOOTSTRAP, CSS and MySQL.
- c. You are free to be as creative as you can but do ensure that you can complete the web application within the specified timeframe.
- d. You are not allowed to use full website templates that are available on the internet. Significant marks will be deducted if you are discovered doing so.
- e. No marks will be given to features that are hardcoded.

## Before you start

You are provided with the SQL file “**c203\_moviereviewdb.sql**”.

### 1. Create database

In PHPMyAdmin, create a database: **c203\_moviereviewdb**

### 2. Import Database

Import **c203\_moviereviewdb.sql** into this database. The following tables are provided.

**users** table

Fields	Type	Special
userId	int(11)	AUTO INCREMENT, PRIMARY KEY
username	varchar(60)	
password	varchar(40)	
name	varchar(80)	
dob	varchar(80)	
email	varchar(80)	

**movies** table

Fields	Type	Special
movieId	int(11)	AUTO INCREMENT, PRIMARY KEY
movieTitle	varchar(80)	
movieGenre	varchar(80)	
runningTime	varchar(20)	
language	varchar(60)	
picture	varchar(60)	
director	varchar(20)	
cast	varchar(80)	
synopsis	text	

**reviews** table

Fields	Type	Special
reviewId	int(11)	AUTO INCREMENT, PRIMARY KEY
movieId	int(11)	FOREIGN KEY
userId	int(11)	FOREIGN KEY
review	text	
rating	int(11)	
datePosted	date	

## Submission Instructions

The project is due in **2 phases**.

### **INTERIM SUBMISSION** Week 8, 7 Jul 2023, 2359hrs.

#### **Web application with GUI and page interactivity using HTML, BootStrap and CSS**

Submit the entire project folder as a zip file into **LEO2.0**. Please ensure that you have a backup copy of your application in case there is a problem with the online submission.

Your zipped document file should be named according to the following format:

StudentID\_YourName\_YourClassCode\_InterimSubmission.zip  
 E.g.: 20123456\_PeterLim\_C203\_2D\_E64A\_InterimSubmission.zip

### **FINAL SUBMISSION** Week 11, 4 Aug 2023, 2359hrs.

#### **Web application with GUI, screen interactivity and database integration**

Submit the entire project folder as a zip file into **SA2.0**. Please ensure that you have a backup copy of your application in case there is a problem with the online submission.

Your zipped document file should be named according to the following format:

StudentID\_YourName\_YourClassCode\_FinalSubmission.zip  
 E.g.: 20123456\_PeterLim\_C203\_2D\_E64A\_FinalSubmission.zip

**Note: DO NOT compress in RAR format.**

## Penalty for late Submission

SA2.0 system will automatically apply penalty for late submission. Do remember to upload and submit your assignment on time.

Time after submission deadline, $t$	$0 < t \leq 24$ hours	$24 < t \leq 48$ hours	$48 < t \leq 72$ hours	$t > 72$ hours
<b>Downgrading applied to submitted work</b>	10% of the maximum score for the submitted work	20% of the maximum score for the submitted work	30% of the maximum score for the submitted work	100% of the maximum score for the submitted work, i.e. award zero marks

The late submission penalty will apply only to the component(s) that relate to the submitted work. Note that the time after submission deadline includes weekends and Public Holidays.

**Late Submission Penalty Table**

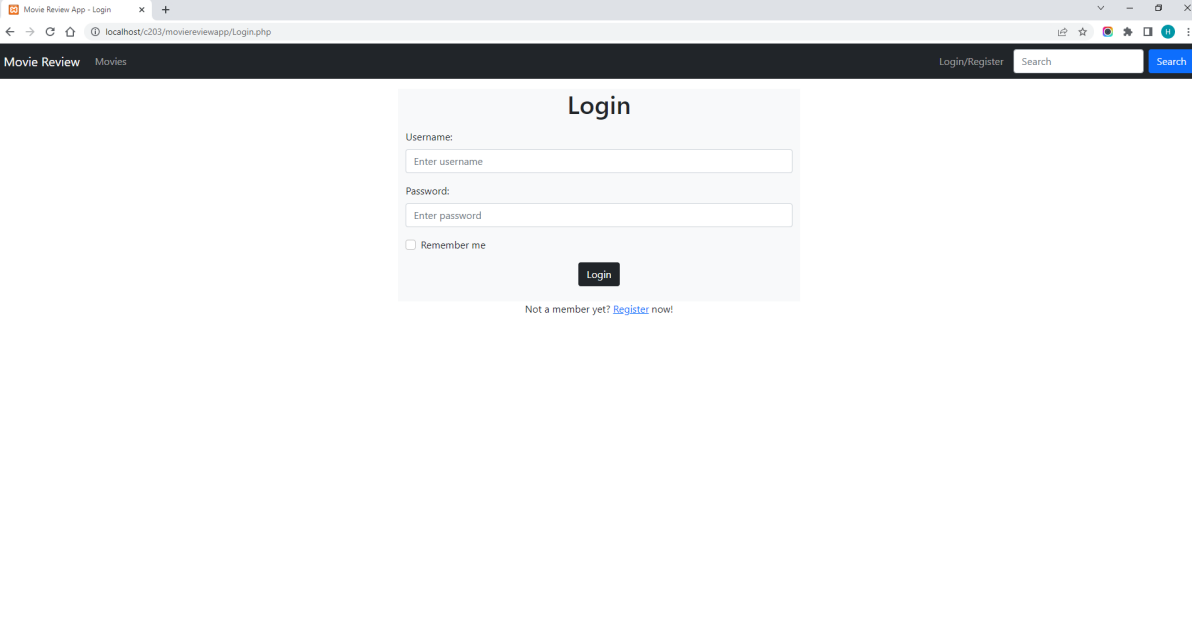
1. Submit your work progressively at any time before the submission deadline for this assignment.
2. DO NOT wait till the last hour or minute to submit your work.
3. Make regular backups of your work.

## Appendix

The screenshots shown here are meant as a guide for your reference only. **You are to create your own look and feel and interactivity for your web application.**

### Login / Logout

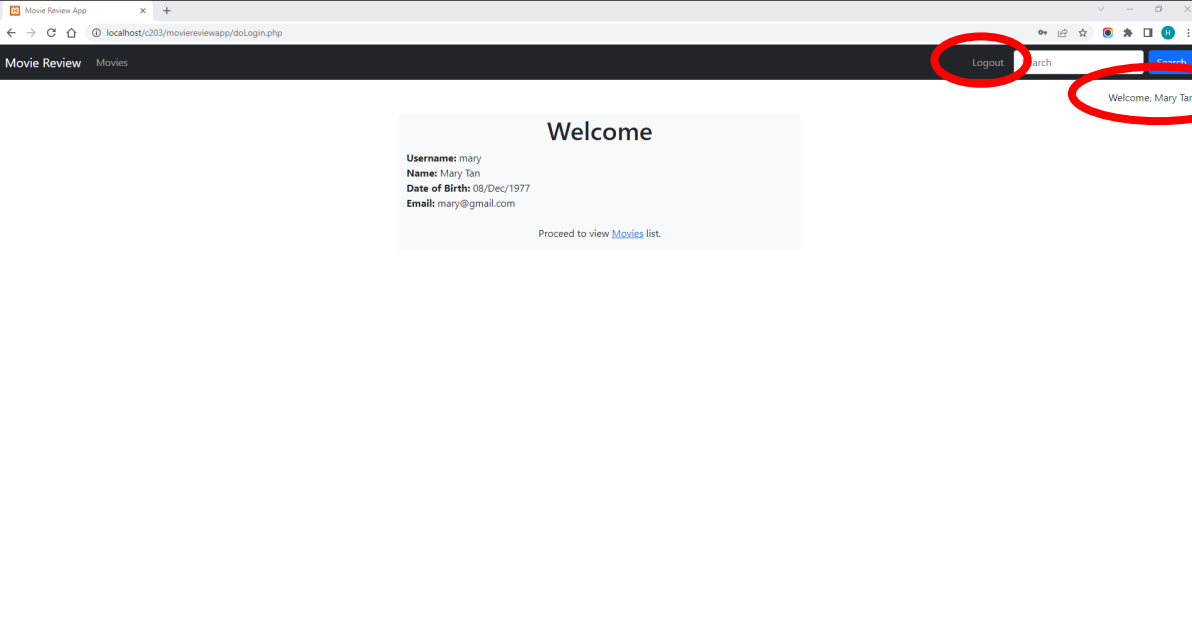
User enters username and password



The screenshot shows a web browser window with the address bar displaying 'localhost/c203/movieviewapp/Login.php'. The page has a dark header with 'Movie Review' and 'Movies' on the left, and 'Login/Register' and a search bar on the right. The main content area features a 'Login' form with the following elements:

- Username:** A text input field with the placeholder 'Enter username'.
- Password:** A text input field with the placeholder 'Enter password'.
- ☐ Remember me
- Login** button
- Below the form: 'Not a member yet? [Register](#) now!'

Username and Password entered correctly

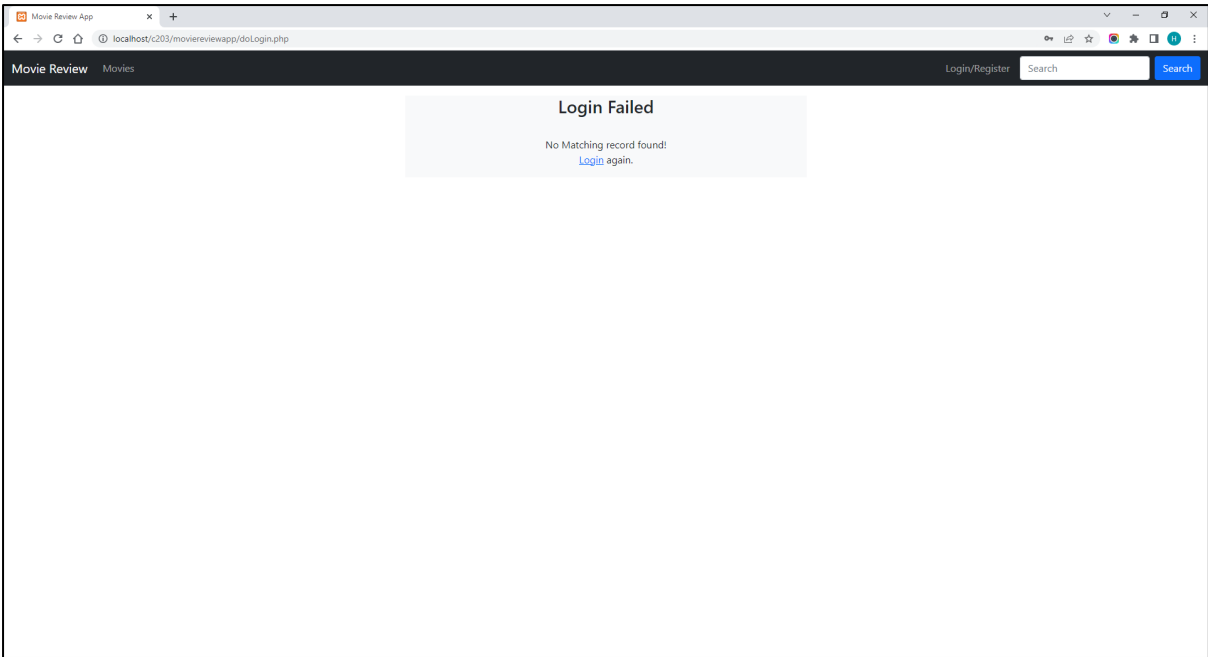


The screenshot shows the same web browser window after a successful login. The address bar now displays 'localhost/c203/movieviewapp/doLogin.php'. The header remains the same. The main content area features a 'Welcome' message with the following elements:

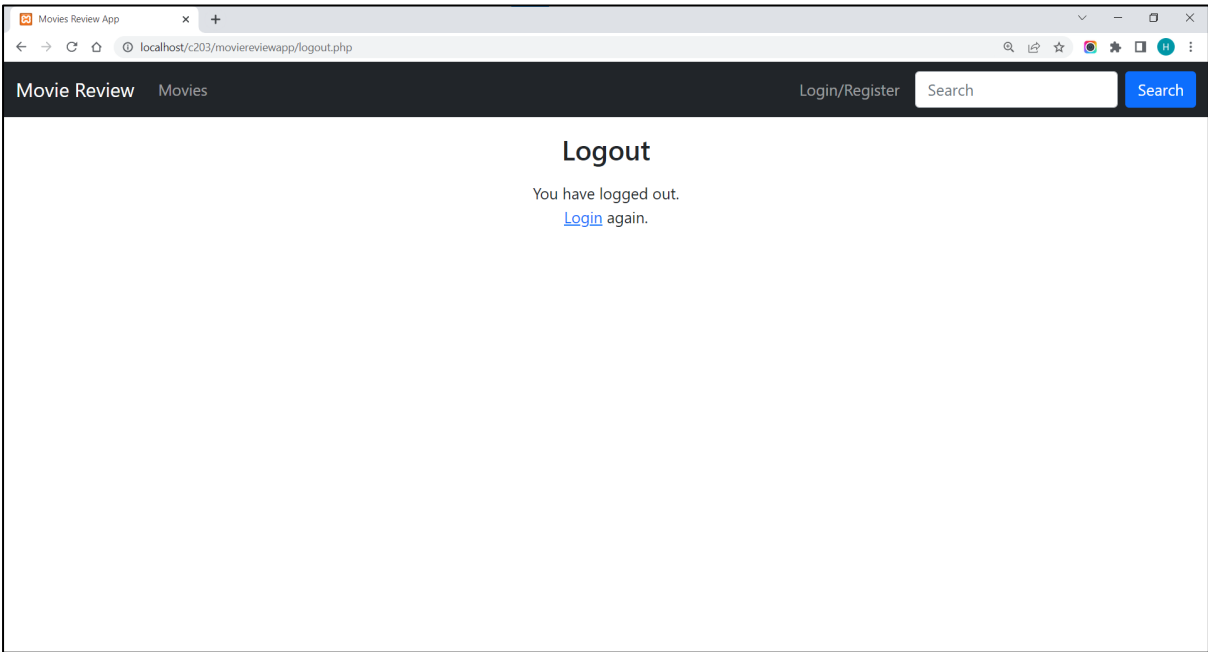
- Username:** mary
- Name:** Mary Tan
- Date of Birth:** 08/Dec/1977
- Email:** mary@gmail.com
- Below the details: 'Proceed to view [Movies](#) list.'

Red circles highlight the 'Logout' button in the top right header and the 'Welcome, Mary Tan' text on the right side of the page.

Invalid username/password

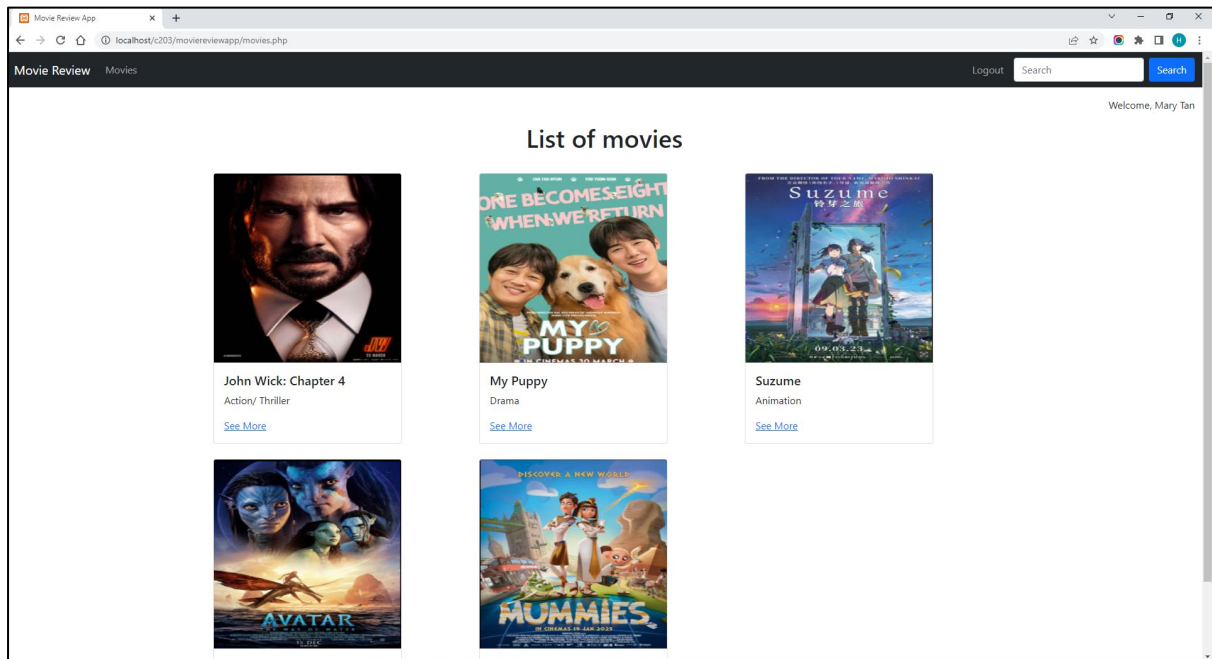


Logout

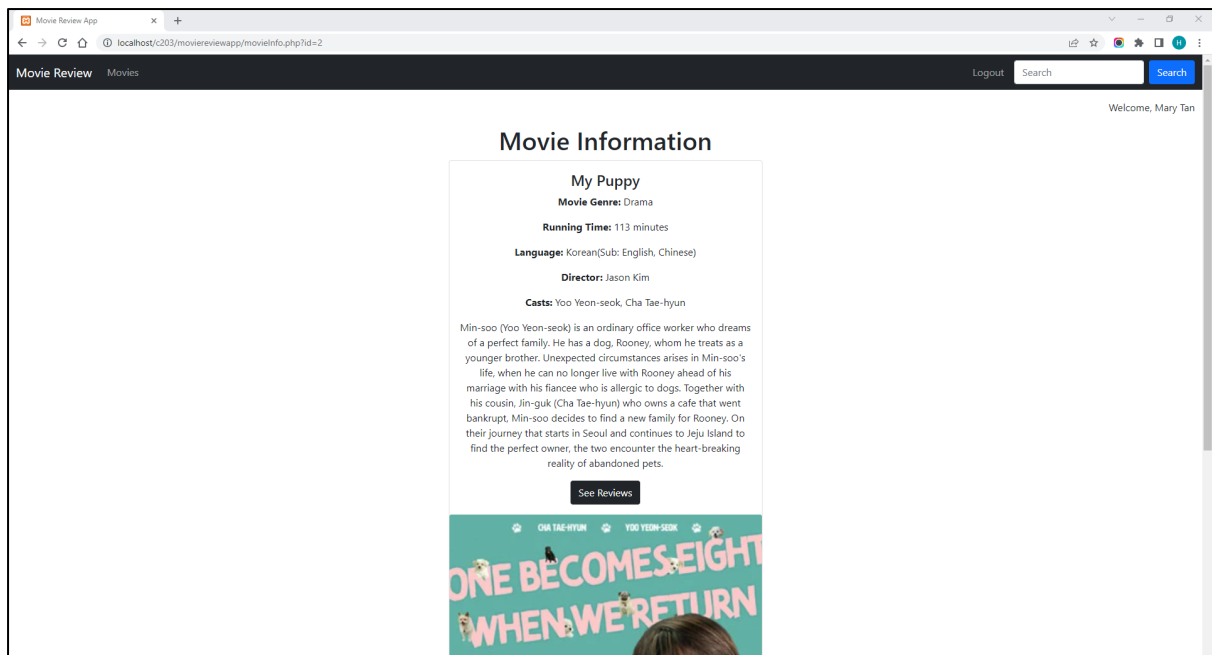


## View All Movies

User clicks on “Movies” link.



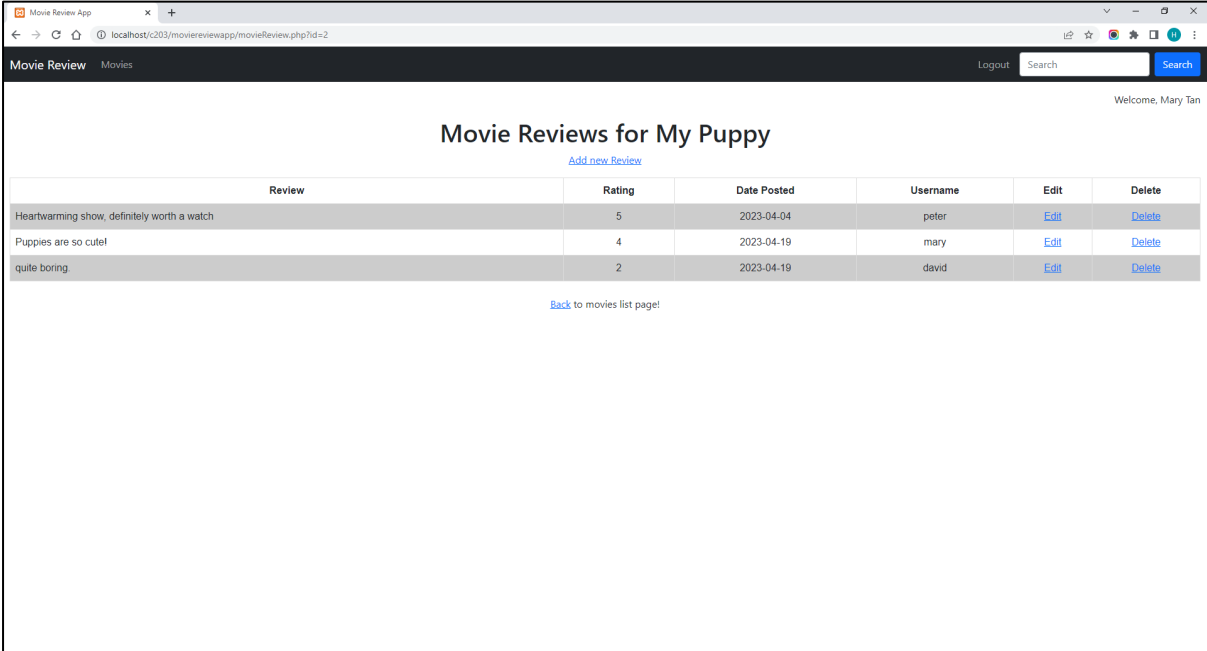
User clicks on “See More” link.





## View All Reviews

Basic – users can edit/delete other users' review



Movie Review App

localhost/c203/movieviewapp/movieReview.php?id=2

Movie Review Movies Logout Search Search

Welcome, Mary Tan

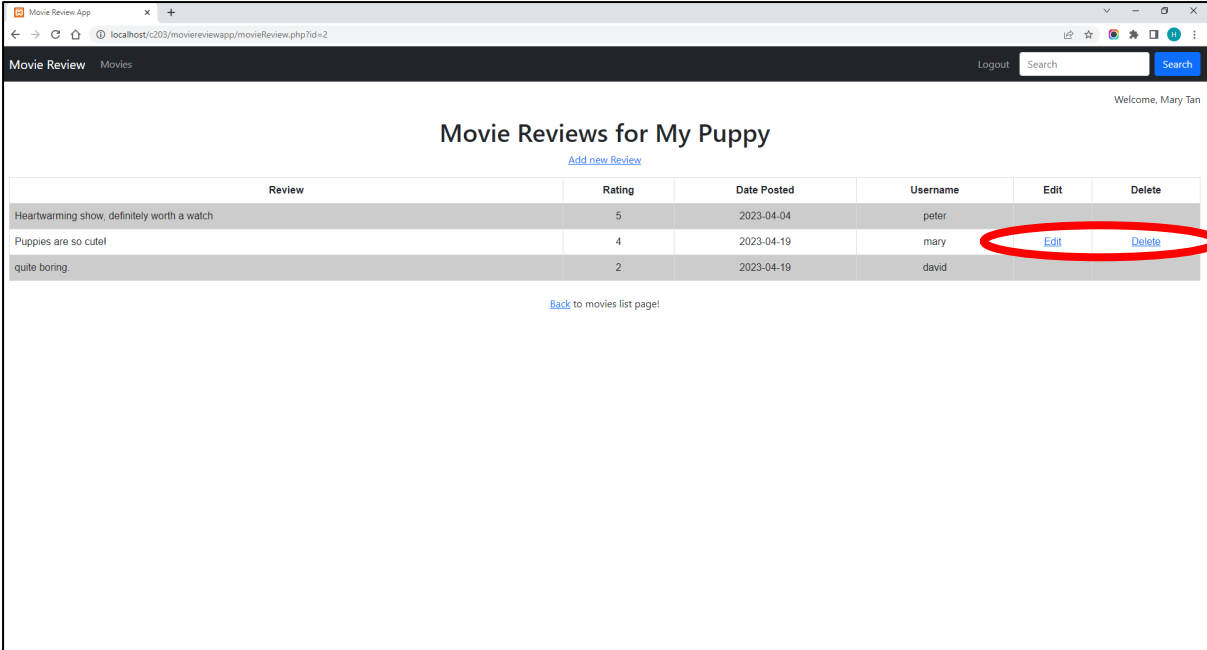
### Movie Reviews for My Puppy

[Add new Review](#)

Review	Rating	Date Posted	Username	Edit	Delete
Heartwarming show, definitely worth a watch	5	2023-04-04	peter	<a href="#">Edit</a>	<a href="#">Delete</a>
Puppies are so cute!	4	2023-04-19	mary	<a href="#">Edit</a>	<a href="#">Delete</a>
quite boring	2	2023-04-19	david	<a href="#">Edit</a>	<a href="#">Delete</a>

[Back](#) to movies list page!

Advance – Users can only edit/delete own review



Movie Review App

localhost/c203/movieviewapp/movieReview.php?id=2

Movie Review Movies Logout Search Search

Welcome, Mary Tan

### Movie Reviews for My Puppy

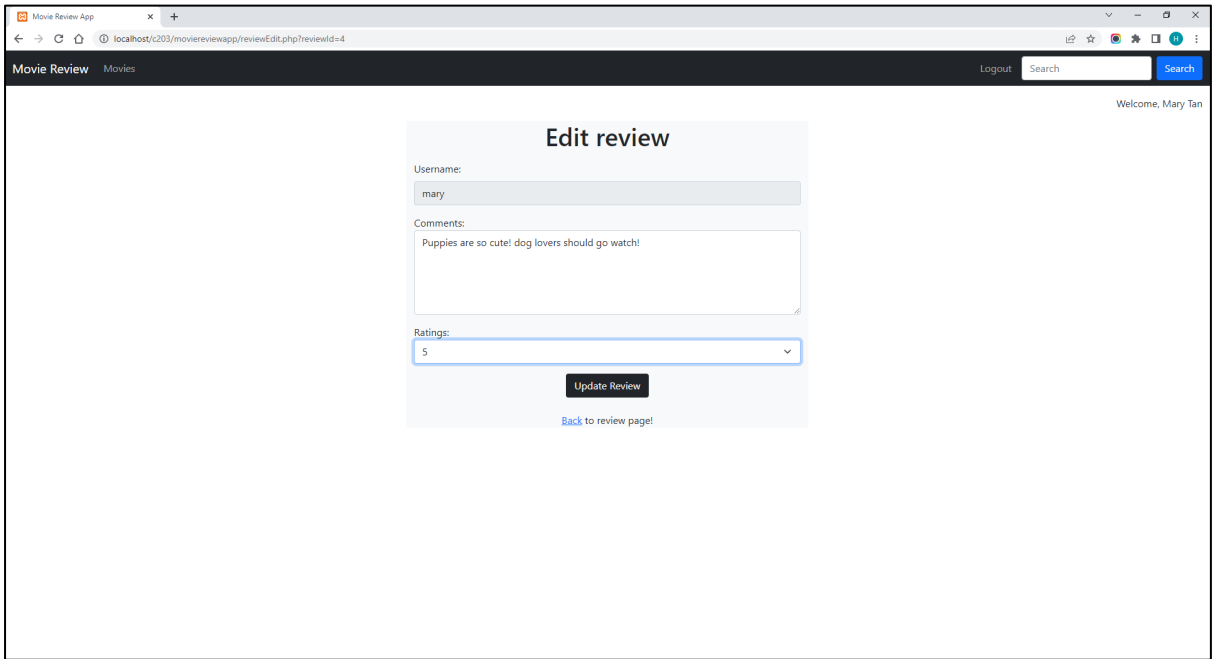
[Add new Review](#)

Review	Rating	Date Posted	Username	Edit	Delete
Heartwarming show, definitely worth a watch	5	2023-04-04	peter	<a href="#">Edit</a>	<a href="#">Delete</a>
Puppies are so cute!	4	2023-04-19	mary	<a href="#">Edit</a>	<a href="#">Delete</a>
quite boring	2	2023-04-19	david	<a href="#">Edit</a>	<a href="#">Delete</a>

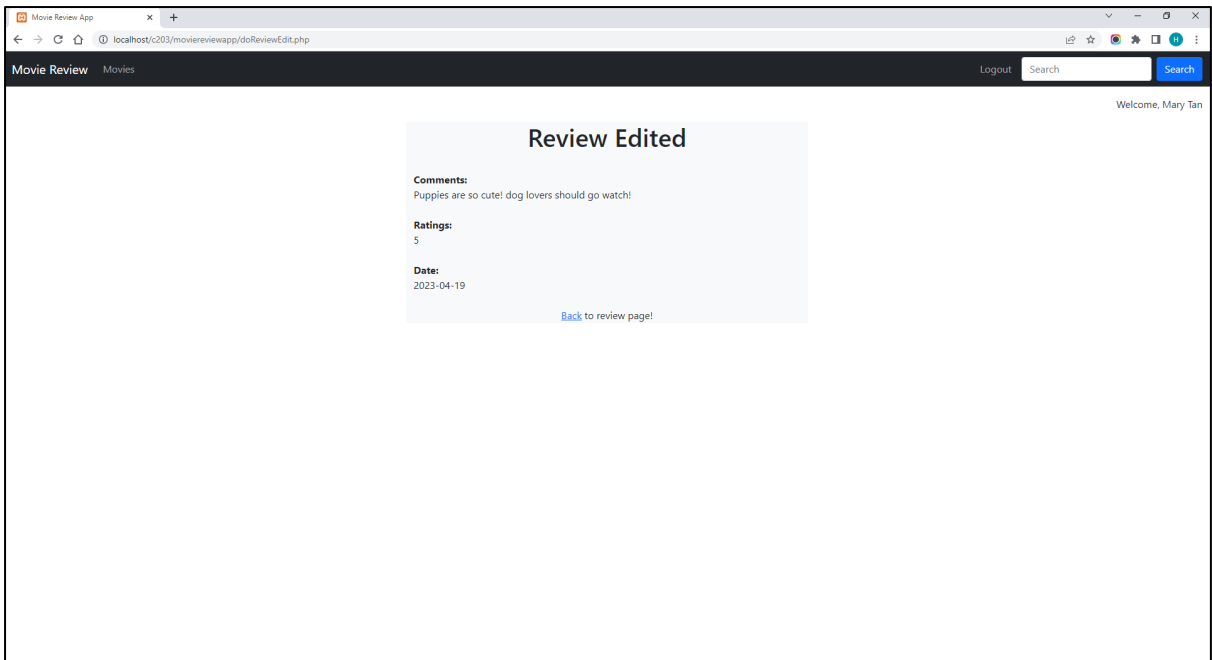
[Back](#) to movies list page!

**Edit Review**

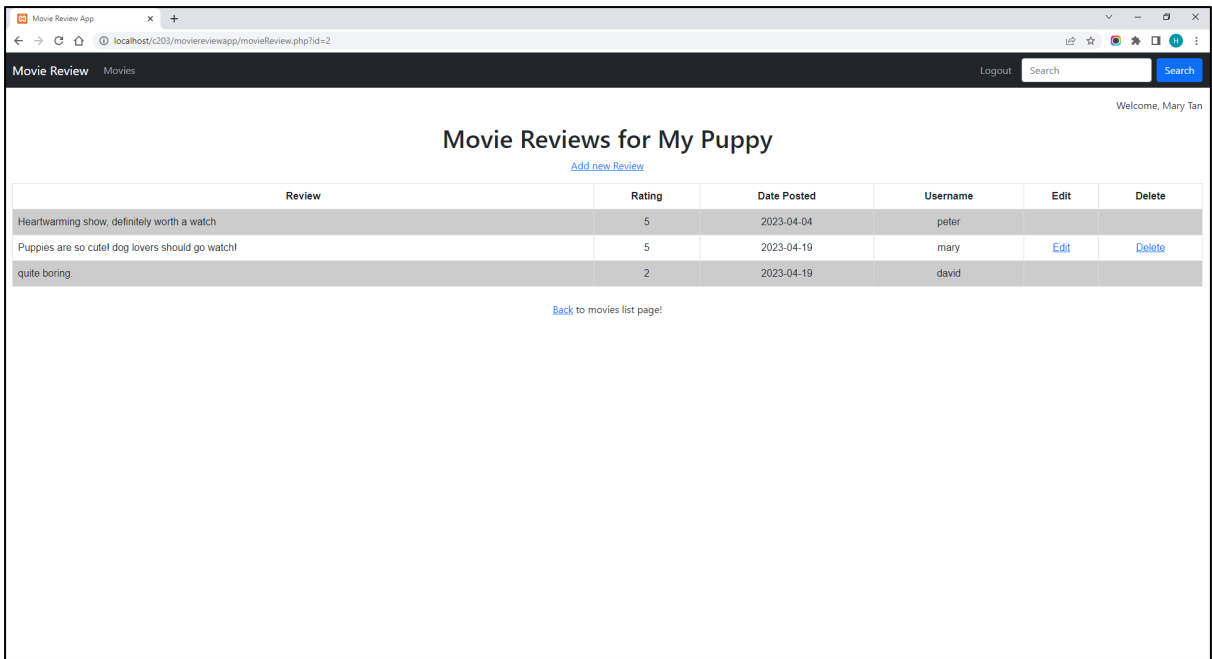
User selects review to edit



User clicks on “Update Review” button

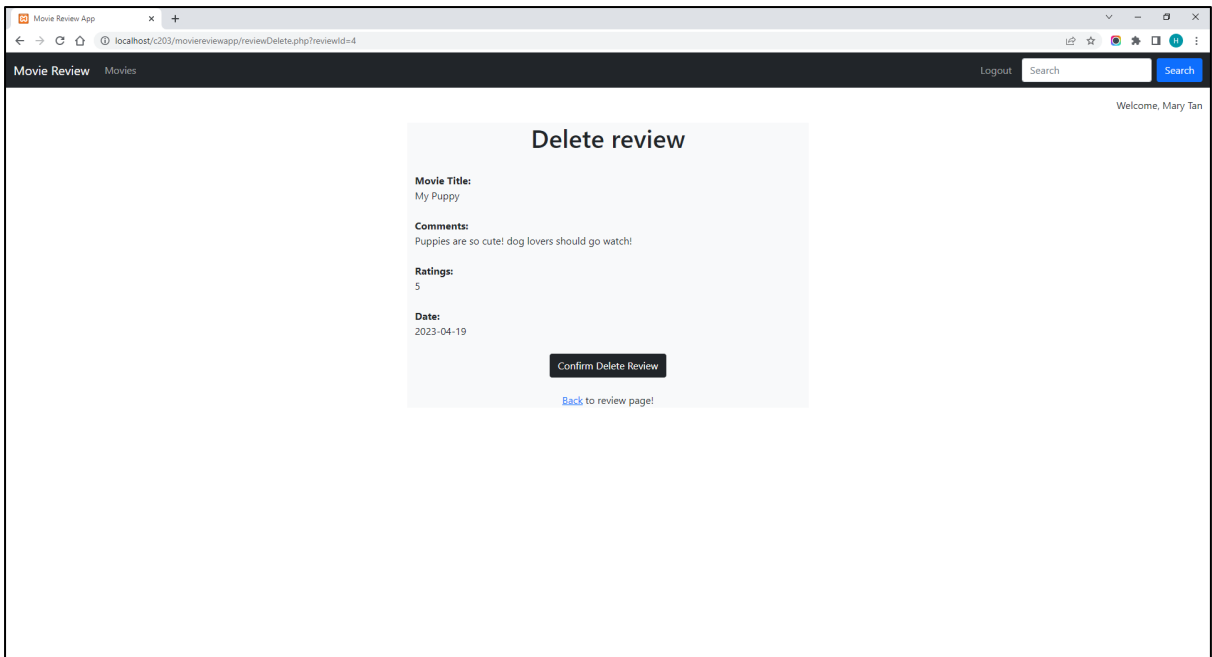


All Reviews page after update

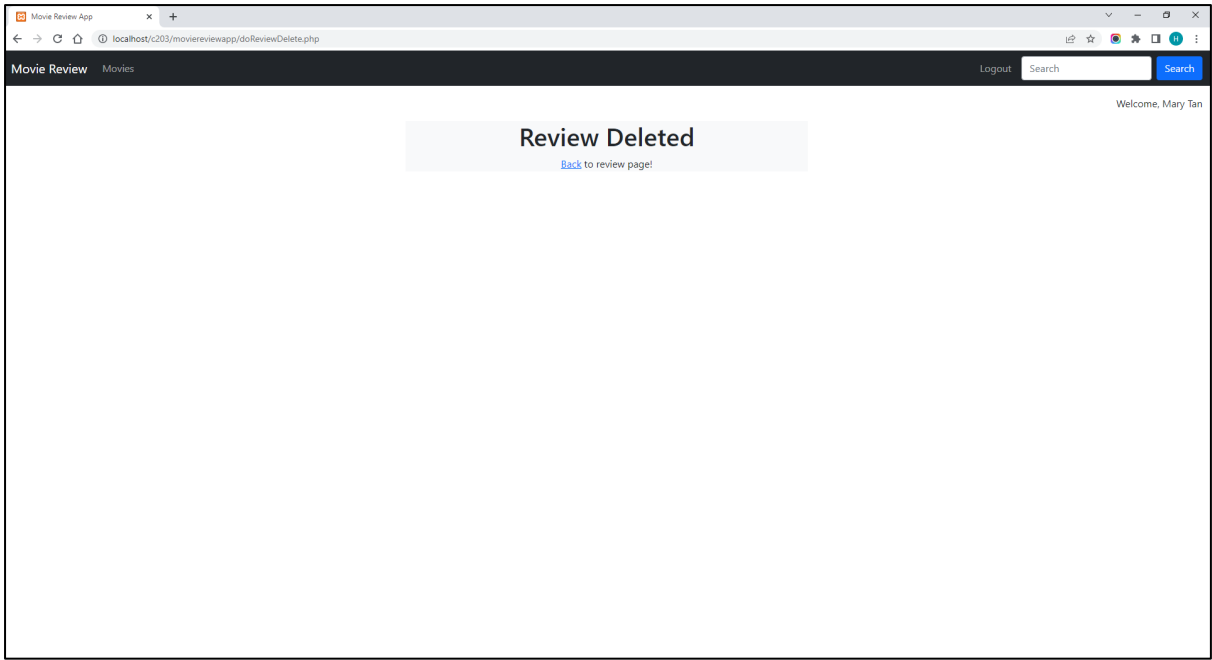


Delete Review

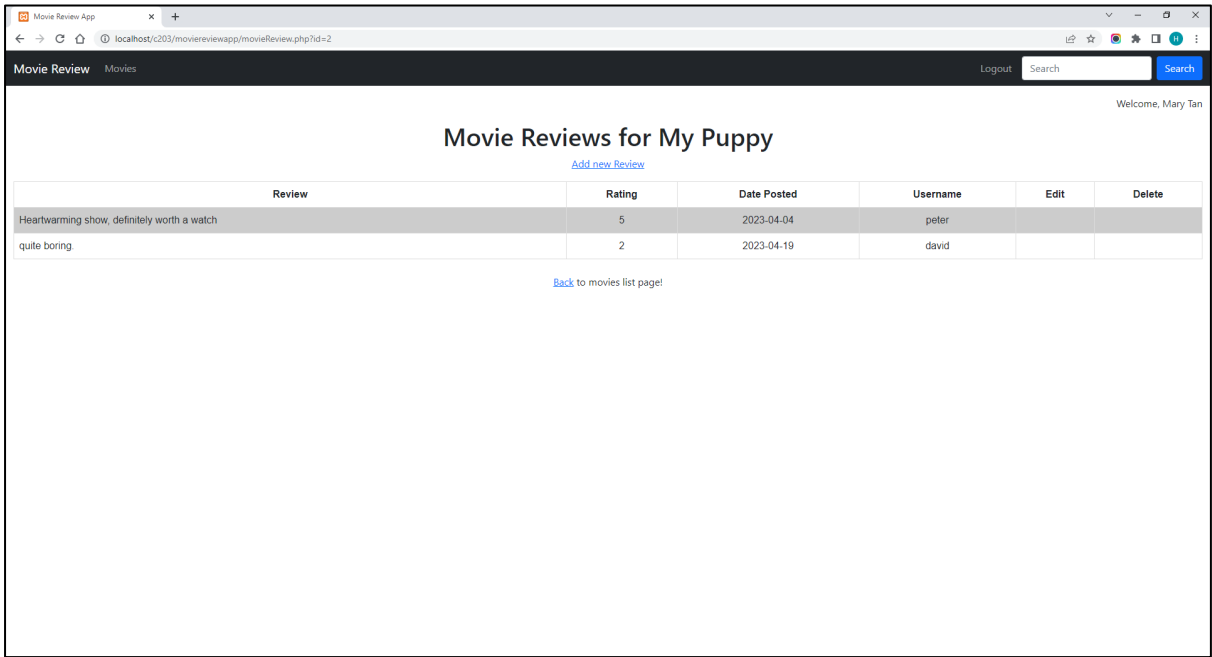
User selects review to delete



User clicks on “Confirm Delete Review” button

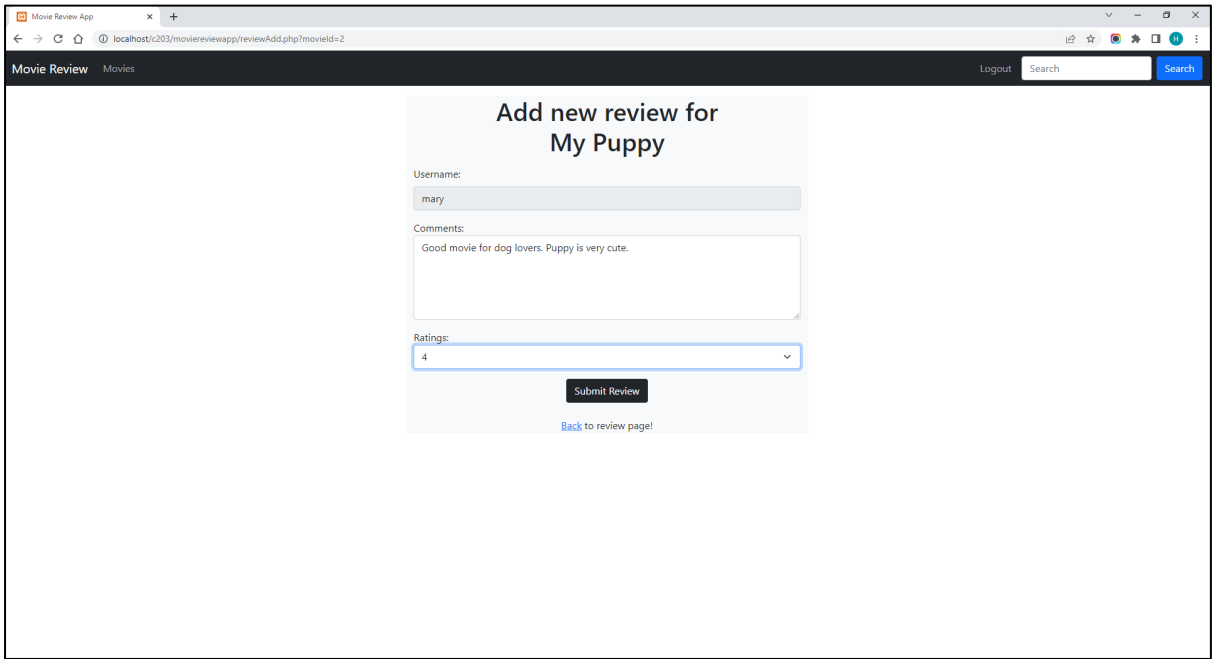


All Reviews page after delete

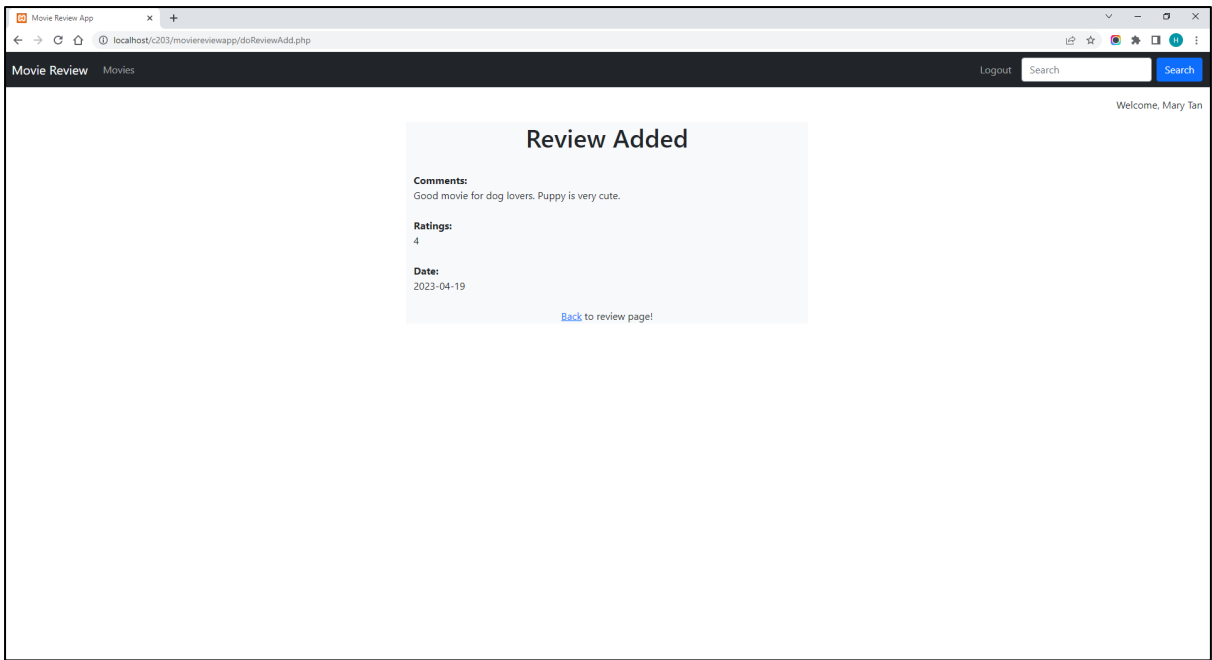


**Add Review**

User clicks on “Add new Review” link and enters review and rating



User clicks on “Submit Review” button



All Reviews page after add

Movie Review App

localhost/c203/movieviewapp/movieReview.php?id=2

LogoutSearchSearch

Movie ReviewMovies

Welcome, Mary Tan

Movie Reviews for My Puppy

[Add new Review](#)

Review	Rating	Date Posted	Username	Edit	Delete
Heartwarming show, definitely worth a watch	5	2023-04-04	peter		
Good movie for dog lovers. Puppy is very cute.	4	2023-04-19	mary	<a href="#">Edit</a>	<a href="#">Delete</a>
quite boring.	2	2023-04-19	david		

[Back](#) to movies list page!