



ONLINE MOVIE RENTAL SYSTEM

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Introduction

The Movie Rental System is a fully functional web-based platform designed to allow users to browse, rent, and return movies online. The system utilizes XML files to store movie and user data, providing a simple and efficient way to manage movie rentals. With features such as user registration, login, and rental history tracking, the platform delivers an interactive, user-friendly experience. The application is built with HTML, CSS, JavaScript, and XML, with an emphasis on security, usability, and dynamic updates.

❖ Key Features

1. User Registration and Login

Users can easily register by providing a username and password. Once registered, they can log in securely to access their personalized rental experience. Authentication ensures that only registered users can perform rental operations.

2. Browse Available Movies

The application allows users to browse a catalog of available movies, with details like title, genre, release year, and movie rating. Only movies marked as "available" in the system can be rented.

3. Rent and Return Movies

Logged-in users can rent movies from the available list, and the rental status is updated in real-time. When the user returns a movie, the system automatically updates the availability status and rental history.

4. Dynamic XML Updates

All operations (user registration, movie rental, and returns) are dynamically reflected in the XML files without requiring page reloads. This ensures a seamless user experience and keeps the data up-to-date.

5. Rental History

Users can view their rental history, including details like rental date, movie ID, and return status. The history is stored in the users.xml file, providing a log of past rentals.

6. Client-Side Validation

The system incorporates client-side form validation, ensuring that user inputs such as

email addresses, passwords, and other personal information are in the correct format before submission.

7. Basic Security Measures

Security is enhanced through password hashing and input sanitization, ensuring user data is protected from unauthorized access. Only logged-in users can rent or return movies, and data integrity is maintained.

8. Dynamic Content Updates

JavaScript is used to dynamically update the HTML content when movies are rented or returned, providing an interactive experience without needing to reload the page.

9. Search Functionality (Extra Credit)

An additional search feature allows users to filter movies based on title, genre, or release year, improving the browsing experience.

10. Admin Panel (Extra Credit)

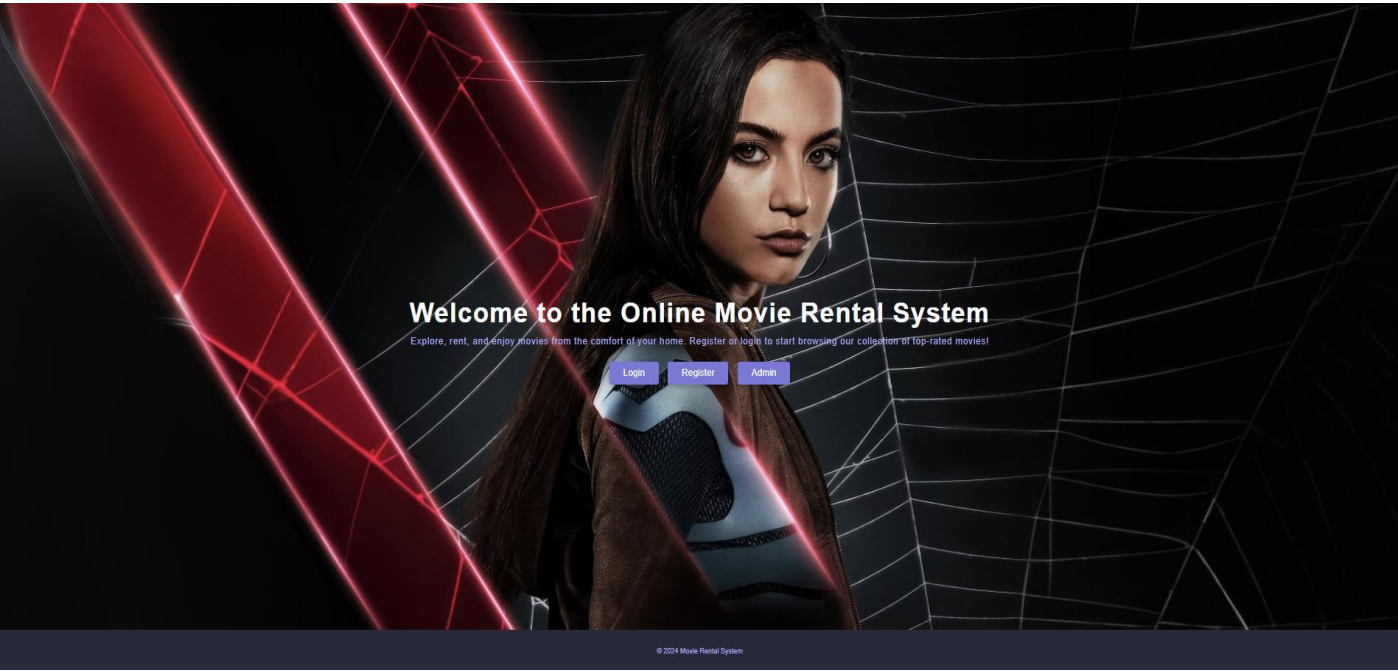
An admin panel is implemented to allow authorized users to manage movie records, including adding, editing, and deleting movie entries.


11. User Account Management (Extra Credit)

Users can update their profiles and change their passwords through an easy-to-use interface.

Technology Stack:

- **XML:** Used for storing movie and user data.
- **HTML/CSS:** Provides the structure and style for the web interface.
- **JavaScript:** Handles user interactions, form validations, and dynamic updates.
- **Security:** Basic measures like password hashing and input sanitization.





Login to Your Account

Username:

Password:

Login

Don't have an account? [Register here.](#)

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Register Your Account

Username:

Password:

Register

Already have an account? [Login here.](#)

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Register Your Account

Username already exists.

Username:

Password:

Register

Already have an account? [Login here.](#)

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Available Movies

Profile

Logout

Search by Title

Search by Genre

Search by

Search

Movie rented successfully!

Movies Collection

Title	Genre	Year	Rating	Copies	Action
Dune	Sci-Fi	2021	8.1	21	<div>Rent</div>
Spider-Man: No Way Home	Action	2021	8.3	1	<div>Rent</div>
The Batman	Action	2022	7.9	2	<div>Rent</div>
Avatar: The Way of Water	Sci-Fi	2022	7.8	6	<div>Rent</div>
Top Gun: Maverick	Action	2022	8.4	1	<div>Rent</div>
Everything Everywhere All at Once	Comedy	2022	8.0	1	<div>Rent</div>
Shang-Chi and the Legend of the Ten Rings	Action	2021	7.4	1	<div>Rent</div>
Black Panther: Wakanda Forever	Action	2022	7.1	1	<div>Rent</div>
The Flash	Action	2023	6.7	1	<div>Rent</div>
Soul	Animation	2020	8.1	7	<div>Rent</div>
John Wick: Chapter 4	Action	2023	8.2	16	<div>Rent</div>

Your Rented Movies

Title	Genre	Year	Rating	Rented At	Returned	Action
Spider-Man: No Way Home	Action	2021	8.3	2024-12-17 23:08:26	Yes	Returned
Black Panther: Wakanda Forever	Action	2022	7.1	2024-12-17 23:08:38	No	<div>Return</div>

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Your Profile

← Back to Movies

Username: Yohani

New Password:

Change Password

Rental History

Title	Rented At	Returned
Dune	2024-12-17 23:27:31	Yes
John Wick: Chapter 4	2024-12-17 23:27:40	No

Admin Login

Username:

admin

Password:

Login

Manage Movies

Add New Movie

TITLE	COPIES	ACTIONS	
Dune	21	Edit	Delete
Spider-Man: No Way Home	1	Edit	Delete
The Batman	2	Edit	Delete
Avatar: The Way of Water	6	Edit	Delete
Top Gun: Maverick	1	Edit	Delete
Everything Everywhere All at Once	1	Edit	Delete
Shang-Chi and the Legend of the Ten Rings	1	Edit	Delete
Black Panther: Wakanda Forever	1	Edit	Delete
The Flash	1	Edit	Delete
Soul	7	Edit	Delete

View Users and Their Rented Movies

USERNAME	RENTED MOVIES	RETURNED
Yohani	<ul style="list-style-type: none">DuneJohn Wick: Chapter 4	<ul style="list-style-type: none">YesNo
malisha	<ul style="list-style-type: none">No movies rented.	<ul style="list-style-type: none">No
Keshan	<ul style="list-style-type: none">Spider-Man: No Way HomeBlack Panther: Wakanda Forever	<ul style="list-style-type: none">YesNo

EDIT MOVIE

Title:

Genre:

Year:

Rating:

Available Copies:

ADD NEW MOVIE

Title:

Genre:

Year:

Rating:

Available Copies: