

Movie Rental Web App

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1. Introduction

Welcome to the Movie Rental App, your digital movie rental management system. This application allows users to browse, rent, and return movies, while managers can maintain the movie inventory.

2. System Requirements

Operating System: Windows 10 or higher

Java Version: JDK 11 or higher

Browser: Chrome, Firefox, or Edge

Database: MySQL 8.0+

Application Server: Apache Tomcat 10.0+

IDE: NetBeans (Recommended)

3. Installation Instructions

1. Install NetBeans IDE from <https://netbeans.apache.org>
2. Install Apache Tomcat 10.0+ from <https://tomcat.apache.org>

3. Execute the create_movie_rental.sql file in MySQL Workbench to create the database and tables
4. Open the project in NetBeans: File > Open Project, select JosiahLoomisMovieRental
5. Configure the database connection in your server's context.xml:

Navigate to web/META-INF/context.xml in your project then update the password field to match your MySQL root password here is currently set to sesame

```
<Context path="/JosiahLoomisMovieRental">
  <Resource name="jdbc/movierental"
    auth="Container"
    driverClassName="com.mysql.cj.jdbc.Driver"
    url="jdbc:mysql://localhost:3306/movie_rental?useSSL=false&serverTimezone=UTC"
    username="root"
    password="sesame"
    maxTotal="100"
    maxIdle="30"
    maxWaitMillis="10000"
    logAbandoned="true"
    removeAbandonedOnBorrow="true"
    removeAbandonedTimeout="60"
    type="javax.sql.DataSource" />
```

6. Deploy the application to Tomcat

4. Getting Started

Navigate to <http://localhost:8089/JosiahLoomisMovieRental>. Then enter a username and password from the table below and Click the Login button.

Username	Password	Role
smith	1234	manager
john	1234	user
mike	1234	user
emily	1234	user
david	1234	user
lisa	1234	user
james	1234	user
maria	1234	user
robert	1234	user
jennifer	1234	user

Login

Username:

Password:

Login

5. User Overview

As a user there are 4 main sections.

Currently rented shows of all the movies that you have currently rented. You can click the return movie button to return the movie.

Currently Rented

The Dark Knight

Due date: 2025-11-08

Date rented: 2025-10-18

Genre: Action

Year: 2008

Duration: 152

Rating: PG-13

Return Movie

Forrest Gump

Due date: 2025-12-11

Date rented: 2025-11-27

Genre: Drama

Year: 1994

Duration: 142

Rating: PG-13

Return Movie

Rental history shows all the movies that you have rented in the past and returned.

Rental History

Superbad

Date: 2025-09-25 - 2025-10-14

Genre: Comedy

Year: 2007

Duration: 113

Rating: R

Available copies: 6

Rent

Blade Runner 2049

Date: 2025-11-27 - 2025-11-27

Genre: Sci-Fi

Year: 2017

Duration: 164

Rating: R

Available copies: 3

Rent

Recommendations shows three movies that you have not rented before based on the genre of your past rentals.

Recommendations

John Wick

Based on your love of Action movies

Genre: Action

Year: 2014

Duration: 101

Rating: R

Available copies: 5

Rent

Baby Driver

Based on your love of Action movies

Genre: Action

Year: 2017

Duration: 115

Rating: R

Available copies: 3

Rent

Mad Max: Fury Road

Based on your love of Action movies

Genre: Action

Year: 2015

Duration: 120

Rating: R

Available copies: 3

Rent

Finally, the Movie Catalog shows all the movies. You can click the rent button in any of the past 3 categories to rent the movie if there are no copies available for that movie the rent button will not show up.

Movie Catalog

The Shawshank Redemption

Genre: Drama

Year: 1994

Duration: 142

Rating: R

Available copies: 8

Rent

Forrest Gump

Genre: Drama

Year: 1994

Duration: 142

Rating: PG-13

Available copies: 2

Rent

The Dark Knight

Genre: Action

Year: 2008

Duration: 152

Rating: PG-13

Available copies: 1

Rent

Mad Max: Fury Road

Genre: Action

Year: 2015

Duration: 120

Rating: R

Available copies: 3

Rent

John Wick

Genre: Action

Year: 2014

Duration: 101

Rating: R

Available copies: 5

Rent

Inception

Genre: Sci-Fi

Year: 2010

Duration: 148

Rating: PG-13

Available copies: 4

Rent

The Matrix

Genre: Sci-Fi

Year: 1999

Duration: 136

Rating: R

Available copies: 3

Rent

Interstellar

Genre: Sci-Fi

Year: 2014

Duration: 169

Rating: PG-13

Available copies: 2

Rent

Blade Runner 2049

Genre: Sci-Fi

Year: 2017

Duration: 164

Rating: R

Available copies: 3

Rent

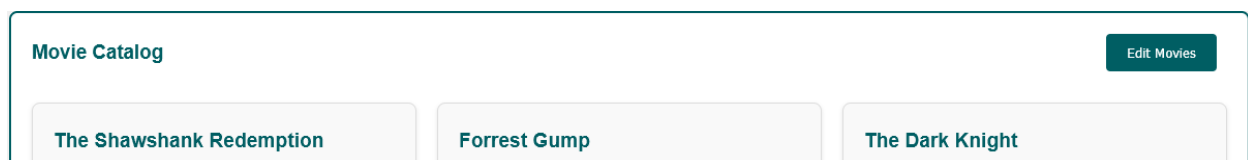
At the top of the page you can click the title to head back to the home page and you can click the Sign Out button to sign out of the app this will bring you back to the login screen.

Movie Rental App

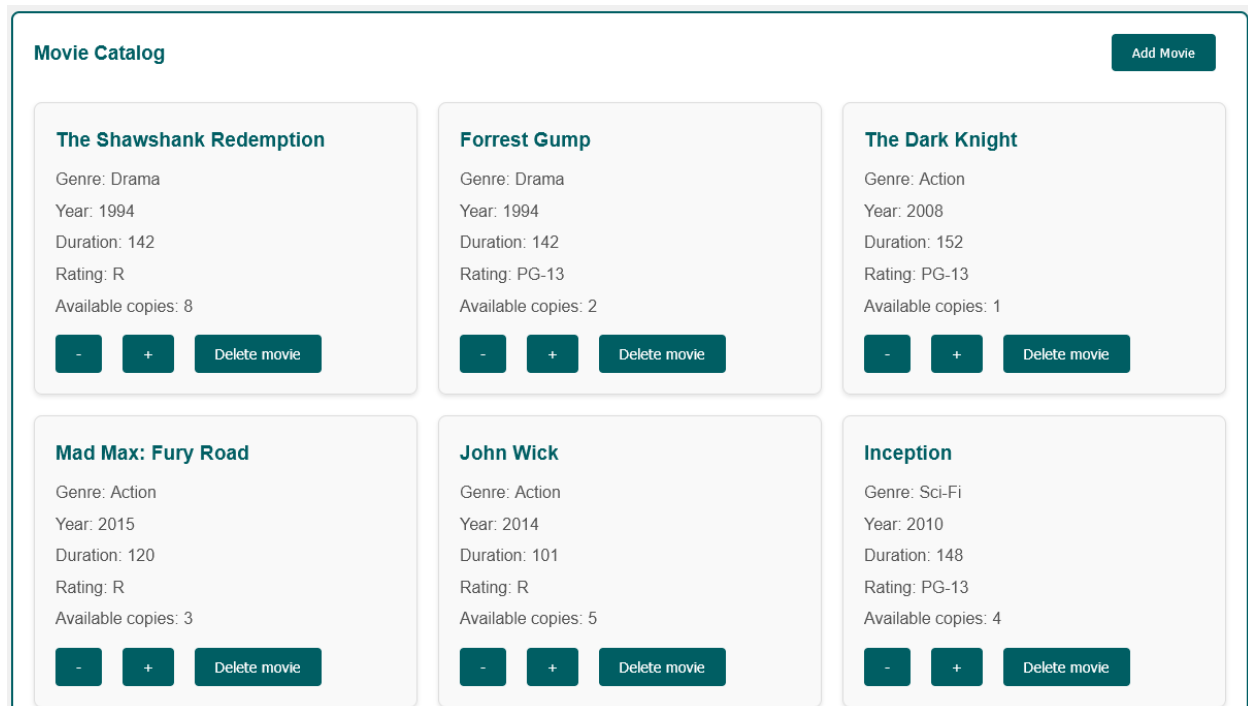
[Sign Out](#)

6. Manager Overview

As a manager you can do everything that a user can as well as directly edit the movie catalog. At the top of the movie catalog theres's a edit movies button that will show up if you are signed in as a manager. Clicking the button will bring you to the edit page where you can edit the movies.



In the edit page you can click the minus button to remove a copy from the movie, the plus button to add a copy, or the Delete Movie Button to fully remove the movie from the catalog. Also in the edit page you can click the Add movie button to bring you to the add page.



In the add page you can fill out the form with the information about the movie then click the Add Movie button to add it to the catalog or the cancel button to cancel.

Add New Movie

Title:

Genre:

Release Year:

Duration In Minutes:

Rating:

-- Select Rating --

Number of Copies:

Add Movie

Cancel

7. Contact and Support

If you encounter issues:

Email: jloomis1@dmacc.edu

GitHub Repo: <https://github.com/JosiahLoomis/MovieRentalWebApp>