

# Movie Rental Web App

## Table of Contents

1. Introduction
2. System Requirements
3. Installation Instructions
4. Getting Started
5. User Overview
6. Manager Overview
7. Contact and Support

## 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 there'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.

The interface shows a 'Movie Catalog' header with an 'Edit Movies' button. Below are three movie cards: 'The Shawshank Redemption', 'Forrest Gump', and 'The Dark Knight'. Each card displays the movie title, genre, year, duration, rating, and available copies. Underneath each title is a row of three buttons: a minus sign, a plus sign, and a 'Delete movie' button.

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.

The interface shows a 'Movie Catalog' header with an 'Add Movie' button. Below are six movie cards: 'The Shawshank Redemption', 'Forrest Gump', 'The Dark Knight', 'Mad Max: Fury Road', 'John Wick', and 'Inception'. Each card displays the movie title, genre, year, duration, rating, and available copies. Underneath each title is a row of three buttons: a minus sign, a plus sign, and a 'Delete movie' button.

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:

Number of Copies:

## 7. Contact and Support

If you encounter issues:

Email: [jloomis1@dmacc.edu](mailto:jloomis1@dmacc.edu)

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