MovieRama

MovieRama is a blog where users can sign up and share descriptions about movies. Furthermore, users can express their like for a movie post or their dislike.

System configuration for development

The application was developed in Java using Spring MVC framework, Maven, Tomcat, Hibernate and MySQL.

OS of development: Windows 10

IDE: Eclipse IDE 2021 -12 https://www.eclipse.org/downloads/
Database: MySQL https://dev.mysql.com/downloads/

MySQL Server: 8.0 MySQL Workbench: 8.0

Java: JDK 17 https://www.oracle.com/java/technologies/downloads/

Maven: 3.8.1 https://maven.apache.org/download.cgi

Spring Framework: 5.3.9 https://repo.spring.io/ui/native/release/org/springframework/spring/

Download the latest zip

Apache Tomcat: 9.0.56 https://tomcat.apache.org/download-90.cgi https://hibernate.org/orm/releases/5.6/

Latest stable version, download zip archive

After installing the zip archives for all the above from the referenced websites, unzip them in hard drive 'C:\' or in 'C:\Program Files'.

Go to 'Edit the system environment variables->Environment Variables...->System variables->New...'

Add more than one path by separating them with ';'.

Set JAVA HOME variable 'C:\Program Files\Java\jdk-17.0.1'.

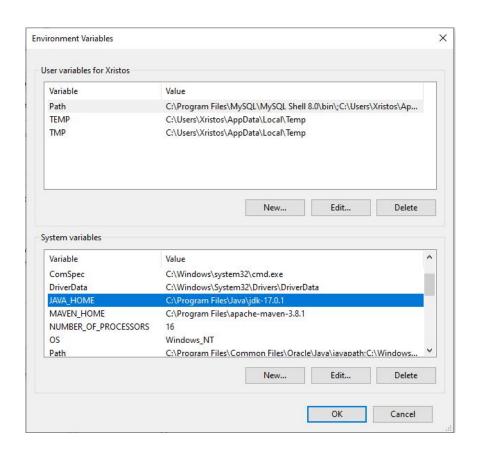
Add JAVA HOME to the Path variable by inserting '%JAVA HOME%\bin'.

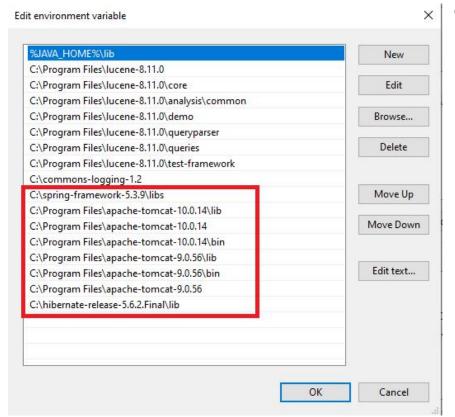
Set MAVEN HOME variable 'C:\Program Files\apache-maven-3.8.1'.

Add MAVEN HOME to the Path variable by inserting '%MAVEN HOME%\bin'.

Add MySQL to the Path variable by inserting 'C:\Program Files\MySQL\MySQL Server 8.0\bin'.

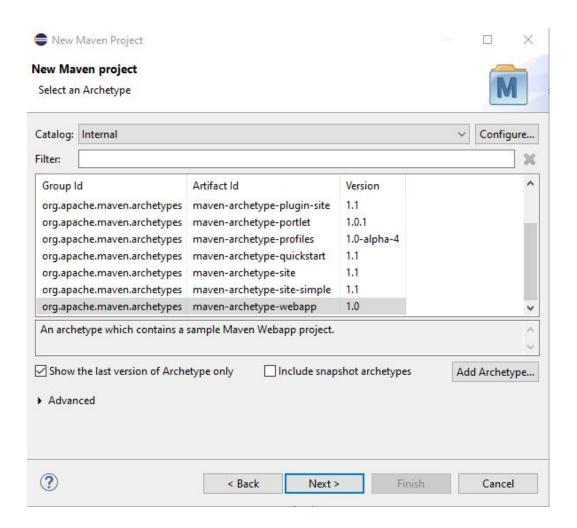
Set the CLASSPATH for spring, tomcat and hibernate.





Classpath

Open Eclipse and then from menu select 'File->New->Project...->Maven->Maven Project-> Next->GroupId: org.apache.maven.archetypes, Artifact Id: maven-archetype-webapp -> Next->Fill Group Id and Artifact Id -> Finish'



Add required dependencies to pom.xml file

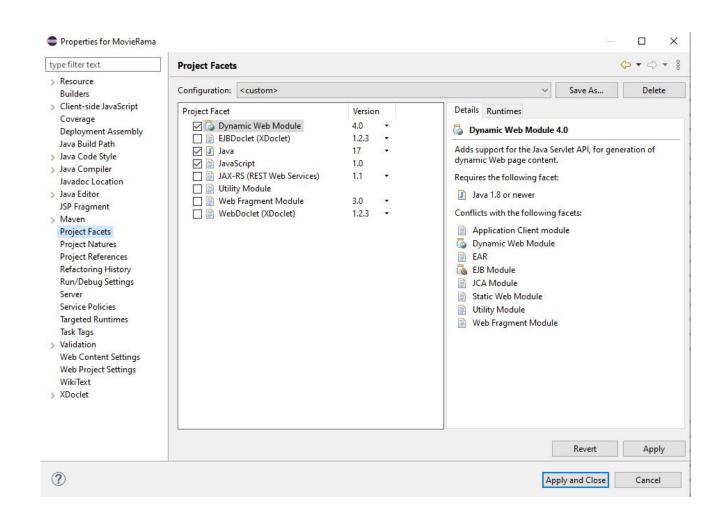
Visit https://mvnrepository.com/ to find the right version for the dependencies.

We need to add dependencies for

- Commons dbcp
- MySQL java connector
- Hibernate jpa
- Hibernate core
- Hibernate validator
- Hibernate entity manager
- Taglibs standard

- Validation api
- Spring
- Spring context
- Spring orm
- Spring jdbc
- Spring webmvc
- Spring core
- Spring web
- Java servlet api
- Jstl api
- Jsp api
- Tomcat servlet api
- Tomcat jasper
- Maven compiler plugin

In Eclipse 'right click on project folder -> Build Path -> Configure Build Path... -> Project Facets -> checkbox Dynamic Web Module'

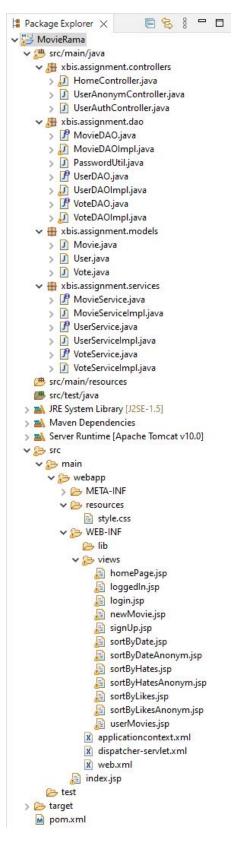


Lastly, setup Tomcat server for running and testing the application.

In Eclipse menu 'Window -> Show View -> Other... -> Server dir -> Servers -> Open'

In the Servers window that opens in the IDE click setup new, choose your Tomcat version and browse to the Tomcat directory in your disk.

Setup your project file module as below.



Installation guide for testing

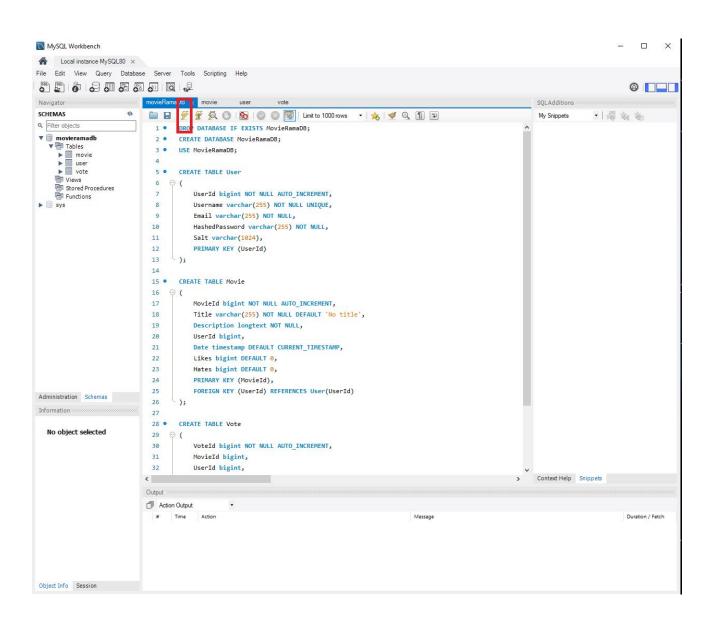
For Apache Tomcat the latest version is 10, but in order for this application to work you have to downgrade to Tomcat 9.

For testing, install all above listed tools and technologies from the referenced links. Set JAVA_HOME, MAVEN_HOME, Path and CLASSPATH variables as instructed above. Open Eclipse, set an EclipseWorkspace and on the menu go to 'File->Import...->Maven dir->Existing Maven Project-> Browse... to the project directory-> Finish'

You might need to set the Tomcat server on Eclipse following the above instructions.

Open MySQL Workbench, on the menu 'File-> Open SQL Script...->browse to the script'

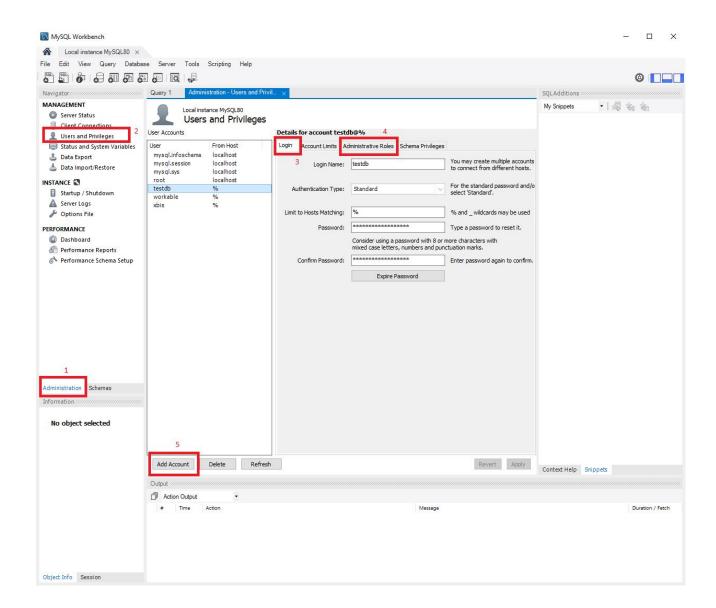
Run the script to create the database.



On MySQL Workbench go to Administration tab on the left-> Users and Privileges-> Add Account

Create a test account with login name 'testdb' and password '12345' and assign Administration Roles.

Or you can add a different account and change the username and password in the 'dispatcher-servlet.xml' file in the project directory.



On Eclipse -> right click project dir -> 'Run As -> Run on Server' and the project will open in your browser ready for using and testing.

Tutorial

Upon opening the blog we are presented with the option to login or continue without logging in.

Welcome to MovieRama!



Continue to Home Page without logging in

Let's continue without logging in. We can see all the added movies but we are not able to like or hate a movie.

MovieRama

Login or Sign Up

Sort by: Likes | Hates | Date

Big Star Wars Fan

Posted by xbis, 2021-12-16 11:23:38

Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

3 likes | 0 hates

The Empire Strikes Back

Posted by xbis, 2021-12-16 11:23:55

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1 likes | 0 hates

Supernatural, worst series finale ever

Posted by workable, 2021-12-16 11:24:57

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2 likes | 0 hates

The room, an amazing movie

Posted by workable, 2021-12-16 11:25:24

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0 likes | 2 hates

We can sort movies by date, viewing the latest one first.

MovieRama

Login o

Sign Up

Sort by: Likes | Hates | Date

Luke I am your father

Posted by mrSkywalker, 2021-12-16 12:16:11

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0 likes | 0 hates

Destroy the Sith

Posted by mrSkywalker, 2021-12-16 12:15:19

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2 likes | 0 hates

So is the bastard of Winterfell

Posted by <u>JonSnow</u>, 2021-12-16 11:57:51

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0 likes | 1 hates

Winter is Coming

Posted by JonSnow, 2021-12-16 11:57:33

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0 likes | 0 hates

A

We can also sort by likes, viewing the most liked one first.

MovieRama

Login or

Sign Up

Sort by: Likes | Hates | Date

Big Star Wars Fan

Posted by xbis, 2021-12-16 11:23:38

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3 likes | 0 hate

Supernatural, worst series finale ever

Posted by workable, 2021-12-16 11:24:57

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2 likes | 0 hates

The Empire Strikes Back

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1 likes | 0 hates

Furthermore, we can sort movies by hates, viewing the most hated one first.

MovieRama

Login or Sign Up

Sort by: Likes | Hates | Date

The room, an amazing movie

Posted by workable, 2021-12-16 11:25:24

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0 likes | 2 hates

Apparently I know nothing!

Posted by JonSnow, 2021-12-16 11:57:23

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1 likes | 1 hates

So is the bastard of Winterfell

Posted by JonSnow, 2021-12-16 11:57:51

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3 likes | 0 hates

Let's create a new user account.

MovieRama

Sign up form

| Username: | |
|----------------|--|
| testuser | |
| Email: | |
| test@gmail.com | |
| Password: | |
| | |
| SignUp | |

After signing up we are redirected to the login page. We will login with our new account.

MovieRama

Login form Username: testuser Password: Login

After login we can view all movies but now we can also make a new movie entry as well as express our opinion about a movie.

MovieRama

Welcome back testuser

Logout

Sort by: Likes | Hates | Date

New Movie

Big Star Wars Fan

Posted by xbis , 2021-12-16 11:23:38

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1 likes 0 hates

Supernatural, worst series finale ever

Posted by workable , 2021-12-16 11:24:57

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2 likes 0 hates

The room, an amazing movie

Posted by workable, 2021-12-16 11:25:24

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We can view only a single user's movies.

MovieRama

List of movies added by xbis

Big Star Wars Fan

Posted by xbis, 2021-12-16 11:23:38

Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

3 likes | 0 hates

The Empire Strikes Back

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1 likes | 0 hates

We can add a new movie.

MovieRama

New Movie

Title

TestUser First Movie!

Description:

Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

Submit

Sorting the movies by date, we now see our movie entry at the top.

MovieRama

Welcome back testuser

Logout

Sort by: Likes | Hates | Date

New Movie

TestUser First Movie!

Posted by You , 2021-12-16 12:35:57

Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

0 likes | 0 hates

Luke I am your father

Posted by <u>mrSkywalker</u> , 2021-12-16 12:16:11

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0 likes 0 hates

Destroy the Sith

Posted by <u>mrSkywalker</u>, 2021-12-16 12:15:19

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2 likes 0 hates

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Let's like and hate some movies.

Sort by: Likes | Hates | Date

New Movie

Big Star Wars Fan

Posted by xbis, 2021-12-16 11:23:38

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4 likes 0 hates

You like this movie | Unlike

The Empire Strikes Back

Posted by xbis , 2021-12-16 11:23:55

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1 likes 0 hates

Supernatural, worst series finale ever

Posted by workable , 2021-12-16 11:24:57

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3 likes 0 hates

You like this movie | Unlike

The room, an amazing movie

Posted by $\underline{workable}$, 2021-12-16 11:25:24

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0 likes 3 hates

You hate this movie | Unhate

Let's change our vote for the third movie at the list, the one with the 'Supernatural, worst series finale ever' title.

MovieRama

Welcome back testuser

Logout

Sort by: Likes | Hates | Date

New Movie

Big Star Wars Fan

Posted by xbis , 2021-12-16 11:23:38

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4 likes 0 hates

You like this movie | Unlike

The Empire Strikes Back

Posted by <u>xbis</u>, 2021-12-16 11:23:55

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1 likes 0 hates

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2 likes 1 hates

You hate this movie | Unhate

The room, an amazing movie

Now, let's sort the movie list by likes and by hates.

MovieRama

Welcome back testuser

Logout

Sort by: Likes | Hates | Date

New Movie

Big Star Wars Fan

Posted by xbis, 2021-12-16 11:23:38

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4 likes 0 hates

You like this movie | <u>Unlike</u>

Supernatural, worst series finale ever

Posted by workable , 2021-12-16 11:24:57

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2 likes 1 hates

You hate this movie | <u>Unhate</u>

Destroy the Sith

Posted by <u>mrSkywalker</u> , 2021-12-16 12:15:19

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2 likes 0 hates

The Empire Strikes Back

MovieRama

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New Movie

The room, an amazing movie

Posted by <u>workable</u> , 2021-12-16 11:25:24

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0 likes 3 hates

You hate this movie | Unhate

Supernatural, worst series finale ever

Posted by $\underline{workable}$, 2021-12-16 11:24:57

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2 likes 1 hates

You hate this movie | Unhate

Apparently I know nothing!

Posted by JonSnow , 2021-12-16 11:57:23

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1 likes 1 hates

So is the bastard of Winterfell

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MovieRama

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Sort by: Likes | Hates | Date

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4 likes | 0 hates

The Empire Strikes Back

Posted by xbis, 2021-12-16 11:23:55

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1 likes | 0 hates

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3 likes | 0 hates

The room, an amazing movie

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0 likes | 3 hates

If we look at our databases we can see that all our actions and changes have been successfully saved.

