How to create complete project MVC project with hibernate

How to create Maven Web Apps project Spring MVC

1. Create new maven project
2. Search org.apache.Maven
3. Select archType- WebApps 1.4
4. Provide artefact ID as your project name
5. Click on Finish
6. Go to src/main/webapps/WEB-INF
7. Delete the web.xml file
8. Right Click on Project Name
9. Show in – System Explorer
10. Go inside the project -> go inside .setting -> Right click on xml file - > update version as 3.1 from 2.3.
11. Back to eclipse
12. Right click on project -> JAVA EE TOOLS -> UPDATE EAR LIBRARIES
13. AGAIN Right click on project -> JAVA EE TOOLS -> Generate deployment descriptor
14. Now, You will not be seeing src/main/java folders for the reason
15. Right click on project -> build path -> configure build path -> order and export -> select
    1. src/main.java
    2. Src/test/java

Now click on Apply and close

1. Now go to src down to deployed resources
   1. Src/main/webapp/
      1. You will see index.jsp with error
      2. To remove that error need to add Servlet JAR
2. Servlet JAR Dependecy

<!-- https://mvnrepository.com/artifact/javax.servlet/javax.servlet-api -->

<dependency>

<groupId>javax.servlet</groupId>

<artifactId>javax.servlet-api</artifactId>

<version>3.1.0</version>

<scope>provided</scope>

</dependency>

1. Add one more dependency
   1. Spring Web MVC

Spring Web MVC Dependecy

<!-- https://mvnrepository.com/artifact/org.springframework/spring-webmvc -->

<dependency>

<groupId>org.springframework</groupId>

<artifactId>spring-webmvc</artifactId>

<version>5.2.9.RELEASE</version>

</dependency>

Note:

If we add Spring Web MVC dependency, it will all other dependency which are needed to create spring core project

1. Spring core

5.2.9.Relieas

1. Spring context

5.2.9

1. Web.xml configuration

<servlet>

<servlet-name>dispatcher</servlet-name>

<servlet-class>org.springframework.web.servlet.DispatcherServlet</servlet-class>

</servlet>

<servlet-mapping>

<servlet-name>dispatcher</servlet-name>

<url-pattern>/</url-pattern>

</servlet-mapping>

1. Inside Web-Inf folder create xml file with name dispatcher.xml(<servlet-name>dispatcher</servlet-name>)

Dispatcher-servlet.xml configuration

<?xml version="1.0" encoding="UTF-8"?>

<!-- NEED TO REMOVE SCHEMA "p". IT IS NOT PRESENT / 404 FOR THIS URL -->

<beans xmlns="http://www.springframework.org/schema/beans"

xmlns:mvc="http://www.springframework.org/schema/mvc"

xmlns:context="http://www.springframework.org/schema/context"

xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

xmlns:p="http://www.springframework.org/schema/p"

xsi:schemaLocation="http://www.springframework.org/schema/mvc

http://www.springframework.org/schema/mvc/spring-mvc.xsd

http://www.springframework.org/schema/beans

http://www.springframework.org/schema/beans/spring-beans-3.0.xsd

http://www.springframework.org/schema/context

http://www.springframework.org/schema/context/spring-context-3.0.xsd">

<context:component-scan base-package="com.rajputautomobiles"/>

<bean class="org.springframework.web.servlet.view.InternalResourceViewResolver">

<property name="prefix" value="/WEB-INF/views"/>

<property name="suffix" value=".jsp"/>

</bean>

</beans>

Spring MVC Example

Create a MVC project to display Login form.

Take the credential from user after clicking on Login

Display another page with user name and password

1. Create loginForm.jsp page under view

Hibernate configuration

Add all below dependencies in the pom.xml file

Hibernate EntityManager Relocation » 5.4.10.Final

<!-- https://mvnrepository.com/artifact/org.hibernate/hibernate-entitymanager -->

<dependency>

<groupId>org.hibernate</groupId>

<artifactId>hibernate-entitymanager</artifactId>

<version>5.4.10.Final</version>

</dependency>

Hibernate Core Relocation » 5.4.10.Final

<!-- https://mvnrepository.com/artifact/org.hibernate/hibernate-core -->

<dependency>

<groupId>org.hibernate</groupId>

<artifactId>hibernate-core</artifactId>

<version>5.4.10.Final</version>

</dependency>

MySql Dependency

<!-- https://mvnrepository.com/artifact/mysql/mysql-connector-java -->

<dependency>

<groupId>mysql</groupId>

<artifactId>mysql-connector-java</artifactId>

<version>5.1.38</version>

</dependency>

Lombok

goto maven repositories

search project lombok

<!-- https://mvnrepository.com/artifact/org.projectlombok/lombok -->

<dependency>

<groupId>org.projectlombok</groupId>

<artifactId>lombok</artifactId>

<version>1.18.12</version>

<scope>provided</scope>

</dependency>

Note : install the JAR file if not installed already

add jar in POM

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persistence.xml configuration

create src folder inside project with name

\*\*\*src/main/Resource\*\*\*\*

under that

create folder with name (META-INF) - > create persistence.xml

and paste below configuration

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<?xml version="1.0" encoding="UTF-8"?>

<persistence version="2.1"

xmlns="http://xmlns.jcp.org/xml/ns/persistence"

xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

xsi:schemaLocation="http://xmlns.jcp.org/xml/ns/persistence http://xmlns.jcp.org/xml/ns/persistence/persistence\_2\_1.xsd">

<persistence-unit name="demo"

transaction-type="RESOURCE\_LOCAL">

<provider>org.hibernate.jpa.HibernatePersistenceProvider</provider>

<properties>

<property name="javax.persistence.jdbc.driver" value="com.mysql.jdbc.Driver" />

<property name="javax.persistence.jdbc.url"

value="jdbc:mysql://localhost:3306/db-name?createDatabaseIfNotExist=true" />

<property name="javax.persistence.jdbc.user" value="root" />

<property name="javax.persistence.jdbc.password" value="root" />

<property name="hibernate.hbm2ddl.auto" value="update" />

<property name="hibernate.show\_sql" value="true" />

<property name="hibernate.format\_sql" value="true" />

<property name="hibernate.dialect"

value="org.hibernate.dialect.MySQL5Dialect" />

</properties>

</persistence-unit>

</persistence>

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