Spring Boot Cheat Sheet

A screenshot of a computer

Description automatically generatedJSP

in the pom.xml file:

<*dependency*>  
 <*groupId*>org.apache.tomcat.embed</*groupId*>  
 <*artifactId*>tomcat-embed-jasper</*artifactId*>  
</*dependency*>

In the application properties file:

*spring.mvc.view.prefix*=/WEB-INF/  
*spring.mvc.view.suffix*=.jsp

int the index.jsp file:

<%@ **page** language="java" contentType="text/html; charset=UTF-8" pageEncoding="UTF-8"%>

JSTL TAGS:

in the pom.xml file:

<dependency>  
 <groupId>jakarta.servlet.jsp.jstl</groupId>  
 <artifactId>jakarta.servlet.jsp.jstl-api</artifactId>  
</dependency>  
<dependency>  
 <groupId>org.glassfish.web</groupId>  
 <artifactId>jakarta.servlet.jsp.jstl</artifactId>  
</dependency>

Int index.jsp file:

<%@ **page** language="java" contentType="text/html; charset=UTF-8" pageEncoding="UTF-8"%>  
<%@ **taglib** prefix = "c" uri = "http://java.sun.com/jsp/jstl/core"%>

C:out :

<h1>Two plus two is: </h1>  
<h2><**c:out** value="${2+2}"/></h2>

Bootstrap in Java:

Dependencies:

<dependency>  
 <groupId>org.webjars</groupId>  
 <artifactId>webjars-locator</artifactId>  
 <version>0.46</version>  
</dependency>  
<!-- BOOTSTRAP DEPENDENCIES -->  
<dependency>  
 <groupId>org.webjars</groupId>  
 <artifactId>bootstrap</artifactId>  
 <version>5.2.3</version>  
</dependency>

Int the index.jsp:

<!-- for Bootstrap CSS -->  
<link rel="stylesheet" href="/webjars/bootstrap/css/bootstrap.min.css" />  
<!-- For any Bootstrap that uses JS -->  
<script src="/webjars/bootstrap/js/bootstrap.min.js"></script>

Session in Java:

On the MainController class:

// ... package and other imports you may have  
import jakarta.servlet.http.HttpSession;  
@Controller  
public class MainController {  
 public String index(HttpSession session){  
 // Here we can use the variable session to store things!  
 return "index.jsp"  
 }  
// ...

JPA:  
  
dependencies:

<dependency>

<groupId>com.mysql</groupId>

<artifactId>mysql-connector-j</artifactId>

<scope>runtime</scope>

</dependency>

<dependency>

<groupId>org.springframework.boot</groupId>

<artifactId>spring-boot-starter-data-jpa</artifactId>

</dependency>

Application properties:

spring.datasource.url=jdbc:mysql://localhost:3306/<<YOUR\_SCHEMA>>

spring.datasource.username=<<dbuser>>

spring.datasource.password=<<dbpassword>>

spring.jpa.hibernate.ddl-auto=update

Domain Model:

Dependencies:

<*dependency*>  
 <*groupId*>org.springframework.boot</*groupId*>  
 <*artifactId*>spring-boot-starter-validation</*artifactId*>  
</*dependency*>

ModelAttributes and Data Binding:

<%@ taglib prefix="form" uri="http://www.springframework.org/tags/form" %>

<%@ page isErrorPage="true" %>

Total:

Dependencies :

<*dependency*>  
 <*groupId*>org.apache.tomcat.embed</*groupId*>  
 <*artifactId*>tomcat-embed-jasper</*artifactId*>  
</*dependency*>

<dependency>  
 <groupId>jakarta.servlet.jsp.jstl</groupId>  
 <artifactId>jakarta.servlet.jsp.jstl-api</artifactId>  
</dependency>  
<dependency>  
 <groupId>org.glassfish.web</groupId>  
 <artifactId>jakarta.servlet.jsp.jstl</artifactId>  
</dependency>

<dependency>  
 <groupId>org.webjars</groupId>  
 <artifactId>webjars-locator</artifactId>  
 <version>0.46</version>  
</dependency>  
<!-- BOOTSTRAP DEPENDENCIES -->  
<dependency>  
 <groupId>org.webjars</groupId>  
 <artifactId>bootstrap</artifactId>  
 <version>5.2.3</version>  
</dependency>

<*dependency*>  
 <*groupId*>org.springframework.boot</*groupId*>  
 <*artifactId*>spring-boot-starter-validation</*artifactId*>  
</*dependency*>

This only if forgot to add when openProject:

<dependency>

<groupId>com.mysql</groupId>

<artifactId>mysql-connector-j</artifactId>

<scope>runtime</scope>

</dependency>

<dependency>

<groupId>org.springframework.boot</groupId>

<artifactId>spring-boot-starter-data-jpa</artifactId>

</dependency>

index.jsp:

<%@ *page* language="java" contentType="text/html; charset=UTF-8" pageEncoding="UTF-8"%>  
*<!-- c:out ; c:forEach etc. -->*<%@ *taglib* prefix = "c" uri = "http://java.sun.com/jsp/jstl/core" %>  
*<!-- Formatting (dates) -->*<%@ *taglib* uri="http://java.sun.com/jsp/jstl/fmt" prefix="fmt" %>  
*<!-- form:form -->*<%@ *taglib* prefix="form" uri="http://www.springframework.org/tags/form"%>  
*<!-- for rendering errors on PUT routes -->*<%@ *page* isErrorPage="true" %>  
<!DOCTYPE html>  
<*html*>  
<*head*>  
 <*meta* charset="UTF-8">  
 <*title*>Tacos</*title*>  
 <*link* rel="stylesheet" href="/webjars/bootstrap/css/bootstrap.min.css">  
 <*link* rel="stylesheet" href="/css/main.css"> *<!-- change to match your file/naming structure -->* <*script* src="/webjars/bootstrap/js/bootstrap.min.js"></*script*>  
 <*script* type="text/javascript" src="/js/app.js"></*script*>*<!-- change to match your file/naming structure -->*</*head*>  
<*body*>  
  
</*body*>  
</*html*>

Application.properties :

*spring.mvc.view.prefix*=/WEB-INF/  
*spring.mvc.view.suffix*=.jsp  
*spring.datasource.url*=jdbc:mysql://localhost:3306/book-schema  
*spring.datasource.username*=root  
*spring.datasource.password*=root  
*spring.jpa.hibernate.ddl-auto*=update

*spring.mvc.hiddenmethod.filter.enabled*=*true*

links and scrips:

<!-- for Bootstrap CSS -->  
<link rel="stylesheet" href="/webjars/bootstrap/css/bootstrap.min.css" />  
<!-- For any Bootstrap that uses JS -->  
<script src="/webjars/bootstrap/js/bootstrap.min.js"></script>  
<link rel="stylesheet" href="/css/style.css">

<script src="/js/script.js"></script>

Dependencies:  
*<!-- DEPENDENCIES FOR STARTING SPRING PROJECTS-->*<*dependencies*>  
 <*dependency*>  
 <*groupId*>org.springframework.boot</*groupId*>  
 <*artifactId*>spring-boot-starter-web</*artifactId*>  
 </*dependency*>  
 <*dependency*>  
 <*groupId*>org.springframework.boot</*groupId*>  
 <*artifactId*>spring-boot-devtools</*artifactId*>  
 <*scope*>runtime</*scope*>  
 <*optional*>true</*optional*>  
 </*dependency*>  
 <*dependency*>  
 <*groupId*>org.springframework.boot</*groupId*>  
 <*artifactId*>spring-boot-starter-tomcat</*artifactId*>  
 <*scope*>provided</*scope*>  
 </*dependency*>  
 <*dependency*>  
 <*groupId*>org.springframework.boot</*groupId*>  
 <*artifactId*>spring-boot-starter-test</*artifactId*>  
 <*scope*>test</*scope*>  
 </*dependency*>  
 *<!-- DEPENDENCIES FOR DISPLAYING JSPS AND USING JSTL TAGS -->* <*dependency*>  
 <*groupId*>org.apache.tomcat.embed</*groupId*>  
 <*artifactId*>tomcat-embed-jasper</*artifactId*>  
 </*dependency*>  
 <*dependency*>  
 <*groupId*>jakarta.servlet.jsp.jstl</*groupId*>  
 <*artifactId*>jakarta.servlet.jsp.jstl-api</*artifactId*>  
 </*dependency*>  
 <*dependency*>  
 <*groupId*>org.glassfish.web</*groupId*>  
 <*artifactId*>jakarta.servlet.jsp.jstl</*artifactId*>  
 </*dependency*>  
 *<!-- DEPENDENCIES FOR INTEGRATING SQL DATABASE AND USING JPA -->  
 <!-- Note: Project will not run until a schema has been created and the  
 proper settings in application properties are present for  
 connecting to a database. -->* <*dependency*>  
 <*groupId*>com.mysql</*groupId*>  
 <*artifactId*>mysql-connector-j</*artifactId*>  
 <*scope*>runtime</*scope*>  
 </*dependency*>  
 <*dependency*>  
 <*groupId*>org.springframework.boot</*groupId*>  
 <*artifactId*>spring-boot-starter-data-jpa</*artifactId*>  
 </*dependency*>  
 *<!-- DEPENDENCY FOR USING VALIDATION ANNOTATIONS -->* <*dependency*>  
 <*groupId*>org.springframework.boot</*groupId*>  
 <*artifactId*>spring-boot-starter-validation</*artifactId*>  
 </*dependency*>  
 *<!-- DEPENDENCY FOR USING BCRYPT -->* <*dependency*>  
 <*groupId*>org.mindrot</*groupId*>  
 <*artifactId*>jbcrypt</*artifactId*>  
 <*version*>0.4</*version*>  
 </*dependency*>  
 *<!-- DEPENDENCIES FOR BOOTSTRAP -->* <*dependency*>  
 <*groupId*>org.webjars</*groupId*>  
 <*artifactId*>webjars-locator</*artifactId*>  
 <*version*>0.46</*version*>  
 </*dependency*>  
 <*dependency*>  
 <*groupId*>org.webjars</*groupId*>  
 <*artifactId*>bootstrap</*artifactId*>  
 <*version*>5.2.3</*version*>  
 </*dependency*>  
 <*dependency*>  
 <*groupId*>org.springframework.boot</*groupId*>  
 <*artifactId*>spring-boot-starter-security</*artifactId*>  
 </*dependency*>  
  
</*dependencies*>