Displaying User Feedback

Open pom.xml

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

<project xmlns="http://maven.apache.org/POM/4.0.0"

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

xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 https://maven.apache.org/xsd/maven-4.0.0.xsd">

<modelVersion>4.0.0</modelVersion>

<parent>

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

<artifactId>spring-boot-starter-parent</artifactId>

<version>2.4.3</version>

<relativePath /> <!-- lookup parent from repository -->

</parent>

<groupId>com.project</groupId>

<artifactId>Feedback</artifactId>

<version>0.0.1-SNAPSHOT</version>

<name>Feedback</name>

<description>Create a Spring Boot project that will capture user feedback using a REST endpoint. The REST resource will take in parameters using HTTP POST. The feedback data will be then added to a database table.</description>

<properties>

<java.version>1.8</java.version>

</properties>

<dependencies>

<dependency>

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

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

</dependency>

<dependency>

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

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

</dependency>

<dependency>

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

<artifactId>spring-boot-starter-jersey</artifactId>

</dependency>

<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-test</artifactId>

<scope>test</scope>

</dependency>

<dependency>

<groupId>org.projectlombok</groupId>

<artifactId>lombok</artifactId>

<optional>true</optional>

</dependency>

<!-- this Dependency helps make sure that pathing works correct-->

<dependency>

<groupId>org.apache.tomcat.embed</groupId>

<artifactId>tomcat-embed-jasper</artifactId>

<scope>provided</scope>

</dependency>

<dependency>

<groupId>javax.xml.bind</groupId>

<artifactId>jaxb-api</artifactId>

</dependency>

<dependency>

<groupId>org.javassist</groupId>

<artifactId>javassist</artifactId>

<version>3.25.0-GA</version>

</dependency>

</dependencies>

<build>

<plugins>

<plugin>

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

<artifactId>spring-boot-maven-plugin</artifactId>

</plugin>

</plugins>

</build>

</project>

Create package com.project.Feedback

package com.project.Feedback;

import org.springframework.boot.SpringApplication;

import org.springframework.boot.autoconfigure.SpringBootApplication;

@SpringBootApplication

public class FeedbackApplication {

public static void main(String[] args) {

SpringApplication.run(FeedbackApplication.class, args);

}

}

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Create package com.project.Feedback.controllers

Create FeedbackController.java

package com.project.Feedback.controllers;

import org.springframework.beans.factory.annotation.Autowired;

import org.springframework.http.MediaType;

import org.springframework.web.bind.annotation.GetMapping;

import org.springframework.web.bind.annotation.PostMapping;

import org.springframework.web.bind.annotation.RequestBody;

import org.springframework.web.bind.annotation.ResponseBody;

import org.springframework.web.bind.annotation.RestController;

import com.project.Feedback.entities.Feedback;

import com.project.Feedback.services.FeedbackService;

@RestController

public class FeedbackController {

@Autowired

FeedbackService feedbackService;

@GetMapping("/feedback")

public Iterable<Feedback> getAllFeedbacks(){

return feedbackService.GetAllFeedback();

}

@PostMapping(path="/feedback", consumes= {MediaType.APPLICATION\_JSON\_VALUE})

public Feedback addNewFeedback(@RequestBody Feedback fb) {

Feedback newFb = new Feedback(fb.getComments(), fb.getRating(), fb.getUser());

feedbackService.addNewFeedback(newFb);

return newFb;

}

}

--------------------------------------------------------------------------------

Create TestFormController.java

package com.project.Feedback.controllers;

import org.springframework.beans.factory.annotation.Autowired;

import org.springframework.stereotype.Controller;

import org.springframework.ui.ModelMap;

import org.springframework.web.bind.annotation.GetMapping;

import org.springframework.web.bind.annotation.ModelAttribute;

import org.springframework.web.bind.annotation.PostMapping;

import com.project.Feedback.entities.Feedback;

import com.project.Feedback.services.FeedbackService;

@Controller

public class TestFormController {

@Autowired

FeedbackService feedbackService;

@GetMapping("/test\_form")

public String showTestForm(ModelMap model) {

model.addAttribute("test", new Feedback());

return "testformjsp";

}

@PostMapping("/test\_form")

public String submitTestForm(@ModelAttribute("testUser") Feedback fb, ModelMap m) {

feedbackService.addNewFeedback(fb);

m.addAttribute("test", fb);

return "post";

}

}

---------------------------------------------------------------------------------

Create package com.project.Feedback.repositories

Create FeedbackRepository.java

package com.project.Feedback.repositories;

import org.springframework.data.repository.CrudRepository;

import org.springframework.stereotype.Repository;

import com.project.Feedback.entities.Feedback;

@Repository

public interface FeedbackRepository extends CrudRepository<Feedback, Integer> {

public Feedback findByUser(String feedback);

}

---------------------------------------------------------------------------------

Create package com.project.Feedback.entity

Create Feedback.java

package com.project.Feedback.entities;

import javax.persistence.Column;

import javax.persistence.Entity;

import javax.persistence.GeneratedValue;

import javax.persistence.GenerationType;

import javax.persistence.Id;

import javax.validation.constraints.NotNull;

import lombok.Data;

@Entity

@Data

public class Feedback {

@Id

@GeneratedValue(strategy = GenerationType.AUTO)

@Column(name="id")

@NotNull

private Integer id;

@Column(name="comments")

private String comments;

@Column(name="rating")

@NotNull

private int rating;

@Column(name="user")

private String user;

public Feedback() {

super();

}

public Feedback(String comments, Integer rating, String user) {

this.comments = comments;

this.rating = rating;

this.user = user;

}

public String getComments() {

return comments;

}

public void setComments(String comments) {

this.comments = comments;

}

public Integer getRating() {

return rating;

}

public void setRating(Integer rating) {

this.rating = rating;

}

public String getUser() {

return user;

}

public void setUser(String user) {

this.user = user;

}

@Override

public String toString() {

return "Feedback [id=" + id + ", comments=" + comments + ", rating=" + rating + ", user=" + user + "]";

}

}

--------------------------------------------------------------------------------

Create package com.project.Feedback.services

Create FeedbackService.java

package com.project.Feedback.services;

import org.springframework.beans.factory.annotation.Autowired;

import org.springframework.stereotype.Service;

import com.project.Feedback.entities.Feedback;

import com.project.Feedback.repositories.FeedbackRepository;

@Service

public class FeedbackService {

@Autowired

FeedbackRepository feedbackRepo;

public Iterable<Feedback> GetAllFeedback() {

return feedbackRepo.findAll();

}

public Feedback addNewFeedback(Feedback fb) {

return feedbackRepo.save(fb);

}

}

-------------------------------------------------------------------------------

Create testform.html

<!DOCTYPE html>

<html>

<head>

<script src="testform.js">

</script>

</head>

<body>

<h2>Feedback Test Form</h2>

<form onsubmit="SubmitTestForm()">

<label for="user">User:</label><br>

<input type="text" id="user" name="user" placeholder="John"><br>

<label for="comments">Comments:</label><br>

<input type="text" id="comments" name="comments" placeholder="Doe"><br><br>

<input type="submit" value="Submit">

</form>

<p>If you click the "Submit" button, the form-data will be sent to a page called "/action\_page.php".</p>

</body>

</html>

-------------------------------------------------------------------------------

testform.jsp

function SubmitTestForm() {

alert("The form was submitted");

}

async function postFormDataAsJson({ url, formData }) {

const plainFormData = Object.fromEntries(formData.entries());

const formDataJsonString = JSON.stringify(plainFormData);

const fetchOptions = {

method: "POST",

headers: {

"Content-Type": "application/json",

"Accept": "application/json"

},

body: formDataJsonString,

};

const response = await fetch(url, fetchOptions);

if (!response.ok) {

const errorMessage = await response.text();

throw new Error(errorMessage);

}

return response.json();

}

-------------------------------------------------------------------------------

application.properties

spring.jpa.hibernate.ddl-auto=update

spring.datasource.url=jdbc:mysql://localhost:3306/mywork

spring.datasource.username=root

spring.datasource.password=password

logging.level.org.springframework.web: DEBUG

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

spring.mvc.view.suffix=.jsp

server.port=8080

--------------------------------------------------------------------------

Create index.jsp

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"

pageEncoding="ISO-8859-1"%>

<!DOCTYPE html>

<html>

<head>

<meta charset="ISO-8859-1">

<title>Welcome Page</title>

</head>

<h2>Landing Page</h2>

<body>

<a href="test\_form">Test Form</a><br/><br/>

<a href="feedback">See all Feedbacks</a><br/><br/>

<br/><br/>

<p>Can only use these link below if you have the jersey dependency added to this dependency.

Jersey has been added to this project so it can use the links below.</p>

<a href="feedbacks">See all feedbacks as User format</a><br/><br/>

<a href="profile/feedbacks">See User's in profile</a>

</body>

</html>

--------------------------------------------------------------------------------

Create post.jsp

<%@ page language="java" contentType="text/html; charset=ISO-8859-1"

pageElcoding="ISO-8859-1"%>

<!DOCTYPE html>

<html>

<head>

<meta charset="ISO-8859-1">

<title>Post test</title>

</head>

<body>

Successfully added: ${testUser.toString()}

</body>

</html>

--------------------------------------------------------------------------------

Create testform.js

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

<html>

<head>

<meta charset="ISO-8859-1">

<title>Spring test App</title>

</head>

<body>

<form:form action="/test\_form" method="post" commandName="testUser">

<label for="user">User:</label><br>

<input type="text" id="user" name="user" placeholder="John"><br>

<label for="comments">Comments:</label><br>

<input type="text" id="comments" name="comments" placeholder="Doe"><br><br>

<input type="submit" value="Submit">

<label for="rating">Rating:</label><br>

<input type="range" name="rating" id="rating" min="0" max="10" value="5" class="slider">

</form:form>

</body>

</html>