**Displaying User Feedback**

**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>mysql</groupId>

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

<scope>runtime</scope>

</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>

<dependency>

<groupId>javax.servlet</groupId>

<artifactId>jstl</artifactId>

<version>1.2</version>

</dependency>

</dependencies>

<build>

<plugins>

<plugin>

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

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

</plugin>

</plugins>

</build>

</project>

**Package Com.project.Feedback:**

**FeedbackApplication.java:**

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);

}

}

**package com.project.Feedback.controllers**

**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;

}

}

**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";

}

// TODO: Implement form submission

// TODO: call RestTemplate and make json request to localhost.../feedback

}

//RestTemplate restTemplate = new RestTemplate();

//URL testForm = new URL("http://localhost:8090/feedbacks/{feedback}");

//ResponseEntity<String> response = restTemplate.getForEntity(testForm + "/7", String.class);

//ObjectMapper mapper = new ObjectMapper();

//JsonNode root = mapper.readTree(response.getBody());

//JsonNode name = root.path("name");

//model.addAttribute(name);

//String result = restTemplate.getForObject("http://localhost:8090/feedbacks/{feedback}", String.class, 7);

package com.project.Feedback.entities

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;

}

/\*

\* Needed the setters and getters to be able to add name and comments otherwise

\* they are nulls when entering the SQL DB

\*/

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 + "]";

}

}

**package com.project.Feedback.repositories**

**FeedbackRepository:**

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);

}

**package com.project.Feedback.services**

**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);

}

}

**Application.properties:**

spring.jpa.hibernate.ddl-auto=update

spring.datasource.url=jdbc:mysql://localhost\:3306/Phase3

spring.datasource.username=root

spring.datasource.password=abc@123

server.port=8080

logging.level.org.springframework.web: DEBUG

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

spring.mvc.view.suffix=.jsp

**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/>

</body>

</html>

**Post.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>Post test</title>

</head>

<body>

Successfully added: ${testUser.toString()}

</body>

</html>

Testform.jsp:

<%@ 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>