Phase3

Lesson2

**Displaying User Feedback**

**DESCRIPTION**

**Project objective:**

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.

**Background of the problem statement:**

As a part of developing an ecommerce web application, a REST resource is needed to capture user feedback. Feedback data will be received from third-party apps and websites. The data will be sent to the REST API which will collect feedback from various sources.

**Code:**

**Package name: com.feedback**

**Class name: FeedbackApplication**

package com.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 name: com.feedback.entities**

**Class name: Feedback**

package com.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 name: com.feedback.repositority**

**Interface name: FeedbackRepository**

package com.Feedback.repositories;

import org.springframework.data.repository.CrudRepository;

import org.springframework.stereotype.Repository;

import com.Feedback.entities.Feedback;

@Repository

public interface FeedbackRepository extends CrudRepository<Feedback, Integer> {

public Feedback findByUser(String feedback);

}

**Package name: com.feedback.service**

**Class name: FeedbackService**

package com.Feedback.services;

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

import org.springframework.stereotype.Service;

import com.Feedback.entities.Feedback;

import com.Feedback.repositories.FeedbackRepository;

@Service

public class FeedbackService {

@Autowired

FeedbackRepository feedbackrepository;

public Iterable<Feedback> GetAllFeedback() {

return feedbackrepository.findAll();

}

public Feedback addNewFeedback(Feedback fb) {

return feedbackrepository.save(fb);

}

}

**Package name: com.feedback.controller**

**Class name: FeedbackController**

package com.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.RestController;

import com.Feedback.entities.Feedback;

import com.Feedback.services.FeedbackService;

@RestController

public class FeedbackController {

@Autowired

FeedbackService feedbackService;

@GetMapping("/feedback")

public Iterable<Feedback> getAllFeedbacks(){

System.out.println("empty");

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;

}

}

**Package name: com.feedback.controller**

**Class name: TestFormController**

package com.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 org.springframework.web.bind.annotation.RequestParam;

import com.Feedback.entities.Feedback;

import com.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";

}

@GetMapping(value = "/")

public String showIndexPage(ModelMap model)

{

model.addAttribute("name", model);

return "index";

}

}

**Jsp code:**

**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</title>

</head>

<h1>Welcome REST Course!</h1>

<h2>Feedback Page</h2>

<body>

<a href=*"test\_form"*>provide Feedback</a><br/><br/>

<a href=*"feedback"*>Read 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>

Thanks for the Feedback:<br/> ${testUser.toString()}<br/><br/>

<a href=*"/"*>Home</a>

</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> <br/>

<a href=*"/"*>Home</a>

</body>

</html>