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Phase:-3

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.

Sourcecode:

Feedback.java

```
package com.simplilearn.demo.entity;
import javax.persistence.Column;

import javax.persistence.Entity;
import javax.persistence.GeneratedValue;
import javax.persistence.GenerationType;
import javax.persistence.Id;


@Entity
public class Feedback {
      @Id
      @Column(name="id")
      @GeneratedValue(strategy=GenerationType.IDENTITY)
      private int id;
      private String name;
      private String email;
      private String feedback;
      public int getId() {
            return id;
      }
      public void setId(int id) {
            this.id = id;
      }
      public String getName() {
            return name;
      }
```

```
	public void setName(String name) {
		this.name = name;
	}
	public String getEmail() {
		return email;
	}
	public void setEmail(String email) {
		this.email = email;
	}
	public String getFeedback() {
		return feedback;
	}
	public void setFeedback(String feedback) {
		this.feedback= feedback;
	}



}
```

Feedback.repository:

```
package com.simplilearn.demo.repo;




import org.springframework.data.jpa.repository.JpaRepository;



import org.springframework.stereotype.Repository;

import com.simplilearn.demo.entity.Feedback;

@Repository

public interface FeedbackRepo extends JpaRepository<Feedback, Integer>{

}
```

Feedbacksevices:

```
package com.simplilearn.demo.service;

import java.util.List;

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

```java
import org.springframework.stereotype.Service;

import com.simplilearn.demo.entity.Feedback;
import com.simplilearn.demo.repo.FeedbackRepo;

@Service
public class FeedbackService {

	@Autowired
	private FeedbackRepo repo;

	//add user method
	public Feedback addUser(Feedback f) {
		return repo.save(f);
	}

	// List user method
	public List<Feedback> getAllFeedback(){
		return repo.findAll();
	}



	//get user by ID
	public Feedback getFeedbackById(int id) {
		if(repo.findById(id).isPresent())
			return repo.findById(id).get();
		else
			return null;

	}

	public Feedback addFeedback(Feedback f) {
		// TODO Auto-generated method stub
		return null;
}
```

Feedbackapplication:

```
package com.simplilearn.demo;

import org.springframework.boot.SpringApplication;

import org.springframework.boot.autoconfigure.SpringBootApplication;
import org.springframework.context.annotation.ComponentScan;

@SpringBootApplication
@ComponentScan("com.simplilearn.demo")
public class FeedbackApplication {

	public static void main(String[] args) {
		SpringApplication.run(FeedbackApplication.class, args);
```

```
        }


}
```

Feedback controller:

```
package com.simplilearn.demo;


import java.util.List;






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

import org.springframework.http.HttpStatus;

import org.springframework.http.ResponseEntity;

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

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

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

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

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

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

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

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


import com.simplilearn.demo.entity.Feedback;
import com.simplilearn.demo.service.FeedbackService;


@RestController
@RequestMapping("/api/feedback")
public class FeedbackController {
    @Autowired
    private FeedbackService service;
    //create new record
    @PostMapping("/")
    public ResponseEntity<Feedback> addFeedback(@RequestBody Feedback f){
        Feedback feedback=service.addFeedback(f);
            return new ResponseEntity<Feedback>(feedback, HttpStatus.CREATED);
    }
    //get all users
    @GetMapping("/")
    public List<Feedback> getAllFeedback(){
        return service.getAllFeedback();
    }
    //get user by id
    @GetMapping("/{id}")
    public ResponseEntity<Feedback>getUserById(@PathVariable int id){
        Feedback feedback =service.getFeedbackById(id);
        if(feedback!=null)
            return new ResponseEntity<Feedback>(feedback, HttpStatus.FOUND);
```

```
                else
                        return new ResponseEntity<Feedback>(feedback,HttpStatus.NOT_FOUND);


        }
}
```

Application properties:

```
spring.datasource.username=root
spring.datasource.password=Surekha@456
spring.datasource.url=jdbc:mysql://localhost:3306/Feedback
spring.jpa.properties.hibernate.dialect=org.hibernate.dialect.MySQL8Dialect
spring.jpa.hibernate.ddl-auto=update
spring.jpa.show-sql=true
server.port=8083
```

Feedbackapplication test:

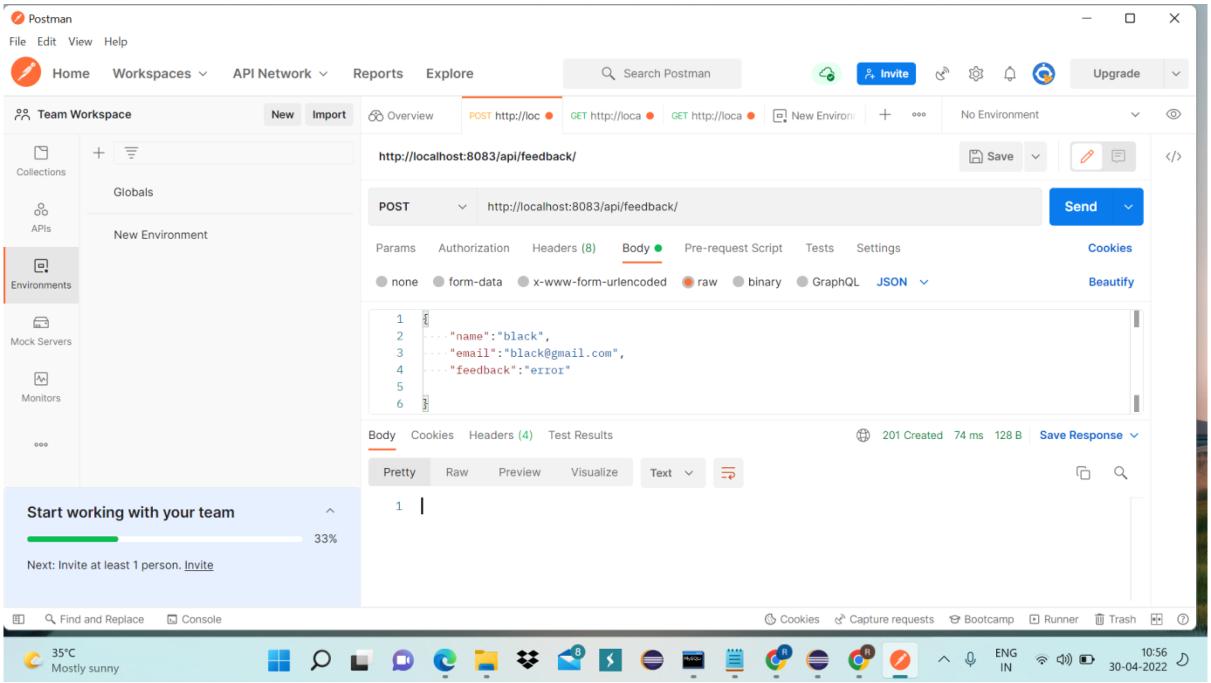
```
package com.example.demo;


import org.junit.jupiter.api.Test;
import org.springframework.boot.test.context.SpringBootTest;


@SpringBootTest
class FeedbackApplicationTests {


        @Test
        void contextLoads() {
        }
}
```

Output:



http://localhost:8083/api/feedback/

POST http://localhost:8083/api/feedback/

```
{
    "name":"black",
    "email":"black@gmail.com",
    "feedback":"error"
}
```

201 Created 74 ms 128 B