## **ASSISTED PROJECT:**

## **RestApiOne**

```
Main Class:
package com.example.test;
import org.springframework.boot.SpringApplication;
import org.springframework.boot.autoconfigure.SpringBootApplication;
@SpringBootApplication
public class RestApiOneApplication {
  public static void main(String[] args) {
SpringApplication.run(RestApiOneApplication.class, args);
}
Entity Class:
package com.example.test;
import javax.persistence.Column;
import javax.persistence.Entity;
import javax.persistence.GeneratedValue;
import javax.persistence.GenerationType;
import javax.persistence.ld;
@Entity
public class PersonEntity {
  @Id
  @GeneratedValue(strategy = GenerationType.AUTO)
  @Column(name = "id", updatable = false, nullable = false)
  private Integer personId;
  @Column
  private String name;
  @Column
  private Integer age;
  public PersonEntity() {
super();
  public PersonEntity(Integer personId, String name, Integer age) {
super();
this.personId = personId;
    this.name = name;
this.age = age;
  }
  public Integer getPersonId() {
    return personId;
  public void setPersonId(Integer personId) {
this.personId = personId;
  }
  public String getName() {
    return name;
  }
```

```
public void setName(String name) {
    this.name = name;
  }
  public Integer getAge() {
    return age;
  }
  public void setAge(Integer age) {
this.age = age;
  }
}
Repository Class:
package com.example.test;
import org.springframework.data.jpa.repository.JpaRepository;
import org.springframework.stereotype.Repository;
@Repository
public interface PersonRepository extends JpaRepository<PersonEntity, Integer> {
Service Class:
package com.example.test;
import java.util.HashMap;
import java.util.Map;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Service;
import org.springframework.web.client.RestTemplate;
@Service
public class PersonService {
  @Autowired
PersonRepositorypersonRepository;
RestTemplaterestTemplate = new RestTemplate();
  public PersonResonsegetPerson(int personId){
    final String uri = "http://localhost:8082/webapitwo/hobby/{personId}";
    Map<String, Integer> params = new HashMap<String, Integer>();
params.put("personId", personId);
    String result = restTemplate.getForObject(uri, String.class, params);
PersonEntity pe=personRepository.findById(personId).get();
PersonResonse pr=new PersonResonse();
pr.setPersonId(pe.getPersonId());
pr.setName(pe.getName());
pr.setAge(pe.getAge());
pr.setHobby(result);
    return pr;
  }
  public void addPerson(PersonEntity pe){
personRepository.save(pe);
}
```

## **Controller Class:**

```
package com.example.test;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.web.bind.annotation.PathVariable;
import org.springframework.web.bind.annotation.RequestBody;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.RequestMethod;
import org.springframework.web.bind.annotation.RestController;
@RestController
@RequestMapping(path = "/webapione")
public class PersonControlller {
  @Autowired
PersonServicepersonService;
  @RequestMapping("/person/{personId}")
  public PersonResonsegetPerson(@PathVariable int personId){
    return personService.getPerson(personId);
  @RequestMapping(method=RequestMethod.POST, value="/person")
  public void addPerson(@RequestBody PersonEntity pe ) {
personService.addPerson(pe);
  }
}
Response Class:
package com.example.test;
public class PersonResonse {
  private Integer personId;
  private String name;
  private Integer age;
  private String hobby;
  public Integer getPersonId() {
    return personId;
  }
  public void setPersonId(Integer personId) {
this.personId = personId;
  }
  public String getName() {
    return name;
  public void setName(String name) {
    this.name = name;
  }
  public Integer getAge() {
    return age;
  }
  public void setAge(Integer age) {
this.age = age;
  public String getHobby() {
    return hobby;
```

```
public void setHobby(String result) {
this.hobby = result;
  }
}
Port Number:
server.port=8081
spring.application.name=RestApiOne
RestApiTwo
Main Method:
package com.example.test;
import org.springframework.boot.SpringApplication;
import org.springframework.boot.autoconfigure.SpringBootApplication;
@SpringBootApplication
public class RestApiTwoApplication {
  public static void main(String[] args) {
SpringApplication.run(RestApiTwoApplication.class, args);
}
}
Entity Class:
package com.example.test;
import javax.persistence.Column;
import javax.persistence.Entity;
import javax.persistence.GeneratedValue;
import javax.persistence.GenerationType;
import javax.persistence.ld;
@Entity
public class HobbyEntity {
  @Id
  @GeneratedValue(strategy = GenerationType.AUTO)
  @Column(name = "id", updatable = false, nullable = false)
  private Integer id;
  @Column
  private Integer personId;
  @Column
  private String name;
  public HobbyEntity() {
super();
  }
  public HobbyEntity(Integer personId, String name) {
super();
this.personId = personId;
    this.name = name;
  public Integer getPersonId() {
    return personId;
```

```
}
  public void setPersonId(Integer personId) {
this.personId = personId;
  public String getName() {
    return name;
  public void setName(String name) {
    this.name = name;
  }
}
Repository Class:
package com.example.test;
import org.springframework.data.jpa.repository.JpaRepository;
import org.springframework.data.jpa.repository.Query;
import org.springframework.stereotype.Repository;
@Repository
public interface HobbyRepository extends JpaRepository<HobbyEntity, Integer> {
   @Query("SELECT h.name FROM HobbyEntity h WHERE h.personId=:personId")
    public String findByPersonId(Integer personId);
}
Service Class:
package com.example.test;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Service;
@Service
public class HobbyService {
  @Autowired
HobbyRepositoryhobbyRepository;
  public String findByPersonId(int personid){
    return hobbyRepository.findByPersonId(personid);
  public void addHobby(HobbyEntity he){
hobbyRepository.save(he);
  }
}
Controller Class:
package com.example.test;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.web.bind.annotation.PathVariable;
import org.springframework.web.bind.annotation.RequestBody;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.RequestMethod;
import org.springframework.web.bind.annotation.RestController;
@RestController
@RequestMapping(path = "/webapitwo")
public class HobbyController {
```

```
@Autowired
HobbyServicehobbyService;
@RequestMapping("/hobby/{personid}")
public String findByPersonId(@PathVariable int personid){
    return hobbyService.findByPersonId(personid);
}
@RequestMapping(method=RequestMethod.POST, value="/hobby")
public void addHobby(@RequestBody HobbyEntity he ) {
hobbyService.addHobby(he);
}
}
Port Number :
```

server.port=8081 spring.application.name=RestApiTwo