**ProduceController :**

import java.util.ArrayList;

import java.util.List;

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

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

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

import com.example.demo.model.Stud;

import com.example.demo.repository.ProduceRepository;

//8081

@RestController

public class ProduceController

{

@Autowired

ProduceRepository repo;

@RequestMapping("/get")

public List<Stud> transferData()

{

return (List<Stud>) repo.findAll();

}

}

**Stud.java (POJO):**

import javax.persistence.Entity;

import javax.persistence.Id;

@Entity

public class Stud

{

@Id

private int stid;

private String name;

**(Setters & Getters)** }

**ProduceRepository:**

package com.example.demo.repository;

import org.springframework.data.repository.CrudRepository;

import org.springframework.stereotype.Repository;

import com.example.demo.model.Stud;

@Repository

public interface ProduceRepository extends CrudRepository<Stud, Integer>

{ }

}

**Application.properties:**

server.port=8081

spring.datasource.username=root

spring.datasource.password=root

spring.datasource.driver-class-name=com.mysql.jdbc.Driver

spring.datasource.url=jdbc:mysql://localhost:3306/proj\_task1

spring.jpa.hibernate.ddl-auto=update

spring.jpa.properties.hibernate.dialect=org.hibernate.dialect.MySQL5Dialect

**ProjConsumerApplication:**

import org.springframework.boot.SpringApplication;

import org.springframework.boot.autoconfigure.SpringBootApplication;

import org.springframework.context.annotation.Bean;

import org.springframework.web.client.RestTemplate;

@SpringBootApplication

public class ProjConsumerApplication {

public static void main(String[] args) {

SpringApplication.run(ProjConsumerApplication.class, args);

}

@Bean

public RestTemplate rt()

{

return new RestTemplate();

}

}

**ConsumeController :**

import java.util.Arrays;

import java.util.List;

import java.util.Set;

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

import org.springframework.http.ResponseEntity;

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

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

import org.springframework.web.client.RestTemplate;

import com.example.demo.model.Institute;

import com.example.demo.model.Stud;

import com.example.demo.repository.ConsumeRepository;

//8082

@RestController

public class ConsumeController

{

@Autowired

RestTemplate rt;

@Autowired

ConsumeRepository repo;

@GetMapping("/show")

public void showData()

{

String url="http://localhost:8081/get";

List l=rt.getForObject(url, List.class);

ResponseEntity<Stud[]> response = rt.getForEntity(url, Stud[].class);

List<Stud> st = Arrays.asList(response.getBody());

for(Object o:st)

{

Stud s=(Stud) o;

Institute i=new Institute();

i.setStid( s.getStid());

i.setName(s.getName());

repo.save(i);

}

}

}

**Stud.java (POJO):**

import javax.persistence.Entity;

import javax.persistence.Id;

@Entity

public class Stud

{

@Id

private int stid;

private String name;

**(Setters & Getters)**

}

**Institute.java (POJO):**

import javax.persistence.Entity;

import javax.persistence.Id;

@Entity

public class Institute

{

@Id

private int stid;

private String name;

private String address, mobno;

}

**ConsumeRepository:**

package com.example.demo.repository;

import org.springframework.data.repository.CrudRepository;

import org.springframework.stereotype.Repository;

import com.example.demo.model.Institute;

import com.example.demo.model.Stud;

@Repository

public interface ConsumeRepository extends CrudRepository<Institute, Integer>

{

}

**Application.properties:**

server.port=8082

spring.datasource.username=root

spring.datasource.password=root

spring.datasource.driver-class-name=com.mysql.jdbc.Driver

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

spring.jpa.hibernate.ddl-auto=update

spring.jpa.properties.hibernate.dialect=org.hibernate.dialect.MySQL5Dialect