**Source codes**

1. SpringBootDataJPARestApplication.java

package com.boot.demo;

import org.springframework.boot.SpringApplication; import

org.springframework.boot.autoconfigure.SpringBootApplication; import org.springframework.web.bind.annotation.RestController;

@SpringBootApplication @RestController

public class SpringBootDataJpaRestApplication {

public static void main(String[] args) { SpringApplication.run(SpringBootDataJpaRestApplication.

class, args);

}

}

1. Home Controller.java

package com.boot.demo;

import java.util.List;

import java.util.Optional;

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

import org.springframework.web.bind.annotation.DeleteMapping; 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.RequestParam; import org.springframework.web.bind.annotation.ResponseBody; import org.springframework.web.servlet.ModelAndView;

@Controller

public class HomeController {

@Autowired StudentRepo repo;

@RequestMapping("/") public String home() {

*return* "home";

}

@RequestMapping("/addStudent")

public String addStudent(Student student) { repo.save(student);

*return* "home";

}

@RequestMapping("/getData")

public ModelAndView getData(@RequestParam int id) { ModelAndView mv = *new* ModelAndView("showData"); Student student = repo.findById(id).orElse(*new*

Student());

mv.addObject(student);

*return* mv;

}

@RequestMapping("/students") @ResponseBody

public String students() {

*return* repo.findAll().toString();

}

@RequestMapping("/students/{id}") @ResponseBody

public String studentsByID(@PathVariable("id") int id) {

*return* repo.findById(id).toString();

}

@RequestMapping("/studentsList") @ResponseBody

public List<Student> studentsList() {

*return* repo.findAll();

}

@RequestMapping("/studentsIDList/{id}") @ResponseBody

public Optional<Student> studentsByIDList(@PathVariable("id") int id) {

*return* repo.findById(id);

}

@PostMapping("/students")

public Student studentsInsert(@RequestBody Student student)

{

repo.save(student);

*return* student;

}

@DeleteMapping("/students/{id}")

public Student studentsDelete(@PathVariable("id") int id) { @SuppressWarnings("deprecation")

Student student=repo.getOne(id); repo.delete(student);

*return* student;

}

@PutMapping(path="/students", consumes =

{"application/json"})

public Student studentsUpdate(@RequestBody Student student)

{

repo.save(student);

*return* student;

}

}

1. Student.java

package com.boot.demo;

import javax.persistence.Entity; import javax.persistence.Id;

@Entity

public class Student {

@Id

private int id; private String name;

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;

}

@Override

public String toString() {

*return* "Student [id=" + id + ", name=" + name + "]";

}

}

1. StudentRepo.java

package com.boot.demo;

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

public interface StudentRepo extends JpaRepository<Student, Integer>{

}