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1. Create a Spring boot application using Spring Tool Suite (STS) and add some require dependency.
2. Create a package named as model
3. Inside model package create a class name Employee and declare some properties (id, dept, location, name and ph)
4. Create another package name controller
5. Inside Controller package create a class named EmployeeController and within EmployeeController wrote POST, GET, PUT and DELETE method
6. Create Service package
7. Create a Repository package and inside repository package create a EmployeeInterface which extends crud repository.
8. Inside service package create a class named EmployeeService. And within EmployeeService class write a service method by using some predefined method provided by crud repository.
9. Within application.properties write a code for database connection.
10. I have used POSTMAN for checking API and mysql workbench for database.

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package com.example.springbootapp;

import org.springframework.boot.SpringApplication;

import org.springframework.boot.autoconfigure.SpringBootApplication;

@SpringBootApplication

public class SpringAssignment2Application {

public static void main(String[] args) {

SpringApplication.run(SpringAssignment2Application.class, args);

}

}

package com.example.springbootapp;

import org.springframework.boot.SpringApplication;

import org.springframework.boot.autoconfigure.SpringBootApplication;

@SpringBootApplication

public class SpringAssignment2Application {

public static void main(String[] args) {

SpringApplication.run(SpringAssignment2Application.class, args);

}

}

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**package** com.example.springbootapp.controller;

**import** java.util.List;

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

**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.RestController;

**import** com.example.springbootapp.model.Employee;

**import** com.example.springbootapp.service.EmployeeService;

@RestController

**public** **class** EmployeeController {

@Autowired

EmployeeService EmployeeService;

@PostMapping("/save/emp/data")

**public** Employee saveEmpData(@RequestBody Employee employee) {

Employee emp = EmployeeService.saveEmpData(employee);

**return** emp;

}

@GetMapping("/get/emp/data")

**public** List<Employee> getEmpData(){

List<Employee> empdata = EmployeeService.getEmpData();

**return** empdata;

}

@GetMapping("/get/empdata/{id}")

**public** Employee getEmpById(@PathVariable **int** id) {

Employee empdata = EmployeeService.getEmpById(id);

**return** empdata;

}

@PutMapping("/updata/empdata")

**public** Employee updateEmpData(@RequestBody Employee employee) {

Employee emp = EmployeeService.updateEmpDataById(employee);

**return** emp;

}

@DeleteMapping("/delete/empdata/{id}")

**public** **void** deleteEmpDataById(@PathVariable **int** id) {

EmployeeService.deleteEmpDataById(id);

}

}

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**package** com.example.springbootapp.service;

**import** java.util.List;

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

**import** org.springframework.stereotype.Service;

**import** com.example.springbootapp.model.Employee;

**import** com.example.springbootapp.repository.EmployeeRepository;

@Service

**public** **class** EmployeeService {

@Autowired

EmployeeRepository employeeRepository;

**public** Employee saveEmpData(Employee employee) {

**return** employeeRepository.save(employee);

}

**public** List<Employee> getEmpData() {

**return** (List<Employee>) employeeRepository.findAll();

}

**public** Employee getEmpById(**int** id) {

**return** employeeRepository.findById(id);

}

**public** Employee updateEmpDataById(Employee employee) {

**return** employeeRepository.save(employee);

}

**public** **void** deleteEmpDataById(**int** id) {

employeeRepository.deleteById(id);

}

}

**package** com.example.springbootapp.repository;

**import** org.springframework.data.repository.CrudRepository;

**import** com.example.springbootapp.model.Employee;

**public** **interface** EmployeeRepository **extends** CrudRepository<Employee, Integer>{

Employee findById(**int** id);

}