# Spring Boot Assignment

# EmployeeController.java:

```
package com.project44.Controller;
import java.util.HashMap;
import java.util.List;
import java.util.Map;
import org.springframework.beans.factory.annotation.Autowired;
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.PutMapping;
import org.springframework.web.bind.annotation.RequestBody;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.RestController;
import com.project44.entity.Employee;
import com.project44.exception.ResourceNotFoundException;
import com.project44.repository.EmployeeRepository;
import com.project44.service.employee service;
@RestController
@RequestMapping("/api/v1/")
public class EmployeeController {
  @Autowired
  employee_service employeeService;
  @Autowired
  private EmployeeRepository employeeRepository;
  public employee_service getEmployeeService() {
    return employeeService;
  public void setEmployeeService(employee service employeeService) {
    this.employeeService = employeeService;
  @PutMapping("/employeeadd")
  public void addEmployee(@RequestBody Employee emp)
    employeeService.addEmployee(emp);
```

```
@GetMapping("/employees")
  public List<Employee> getAllEmployee()
    return employeeService.getAllEmployee();
 @PutMapping("/employees/{id}")
  public ResponseEntity<Employee> updateEmployee(@PathVariable int id,
@RequestBody Employee emp1)
    Employee employee = employeeRepository.findById(id).orElseThrow(()->new
ResourceNotFoundException("Employee not exist with given id" +id));
    employee.setEmpName(emp1.getEmpName());
    employee.setDeptName(emp1.getDeptName());
    employee.setSalary(emp1.getSalary());
    Employee updatedEmployees = employeeRepository.save(employee);
    return ResponseEntity.ok(updatedEmployees);
 @DeleteMapping("/employees/{id}")
  public ResponseEntity<Map<String, Boolean>> deleteEmployee(@PathVariable int
id)
    Employee employee = employeeRepository.findById(id).orElseThrow(()->new
ResourceNotFoundException("Employee not exist with given id" +id));
    employeeRepository.delete(employee);
    Map<String, Boolean> response = new HashMap<>();
    response.put("deleted", Boolean.TRUE);
    return ResponseEntity.ok(response);
```

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## Employee.java(Entity):

```
package com.project44.entity;
import jakarta.persistence.Column;
import jakarta.persistence.Entity;
import jakarta.persistence.GeneratedValue;
import jakarta.persistence.GenerationType;
import jakarta.persistence.Id;
import jakarta.persistence.Table;
@Entity
@Table(name="Employee")
public class Employee {
 @Id
  @GeneratedValue(strategy = GenerationType.IDENTITY)
  private int id;
 @Column(name="employee Name")
  private String empName;
  @Column(name="dept Name")
  private String deptName;
 @Column(name="Salary")
  private long salary;
  public Employee() {
```

```
super();
public Employee(int empid, String empName, String deptName, long salary) {
  super();
  this.id = empid;
 this.empName = empName;
  this.deptName = deptName;
  this.salary = salary;
public Employee(String empName, String deptName, long salary) {
  super();
 this.empName = empName;
  this.deptName = deptName;
  this.salary = salary;
public int getId() {
 return id;
public void setId(int id) {
 this.id = id;
public String getEmpName() {
 return empName;
public void setEmpName(String empName) {
 this.empName = empName;
public String getDeptName() {
 return deptName;
public void setDeptName(String deptName) {
 this.deptName = deptName;
public long getSalary() {
 return salary;
public void setSalary(long salary) {
```

```
this.salary = salary;
}
```

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## ResourceNotFoundException.java:

```
package com.project44.exception;
import org.springframework.http.HttpStatus;
import org.springframework.web.bind.annotation.ResponseStatus;

@ResponseStatus(value = HttpStatus.NOT_FOUND)
public class ResourceNotFoundException extends RuntimeException{
    private static final long serialVersionUID = 1L;

    public ResourceNotFoundException(String message) {
        super(message);
    }
}
```

# Employeeservice.java(Interface):

```
package com.project44.service;
import java.util.List;
import com.project44.entity.Employee;
public interface employee_service {
   public void addEmployee(Employee emp);
   public void updateEmployee(Employee emp, int empid);
   public void deleteEmployee(int empid);
   public List<Employee> getAllEmployee();
}
```

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# Employeerepository.java:

```
package com.project44.repository;

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

import com.project44.entity.Employee;

@Repository
public interface EmployeeRepository extends JpaRepository<Employee, Integer> {
}
```

```
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# EmployeeServiceImp.java:

```
package com.project44.service;
import java.util.List;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Service;
import com.project44.entity.Employee;
import com.project44.repository.EmployeeRepository;

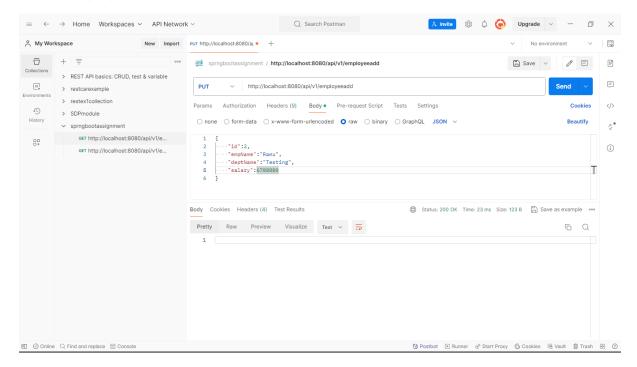
@Service
public class employee_service_Impl implements employee_service {
    @Autowired
    EmployeeRepository employeeRepository;
    public EmployeeRepository getEmployeeRepository() {
        return employeeRepository;
    }

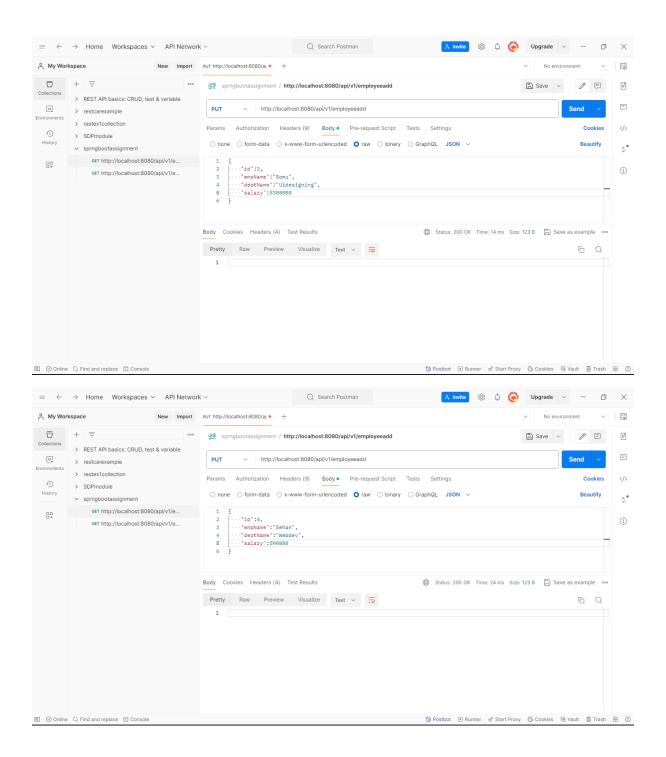
    public void setEmployeeRepository(EmployeeRepository employeeRepository) {
        this.employeeRepository = employeeRepository;
}
```

```
@Override
public void addEmployee(Employee emp) {
  employeeRepository.save(emp);
@Override
public void updateEmployee(Employee emp, int empid) {
 employeeRepository.save(emp);
@Override
public void deleteEmployee(int empid) {
 employeeRepository.deleteById(empid);
@Override
public List<Employee> getAllEmployee() {
 return employeeRepository.findAll();
```

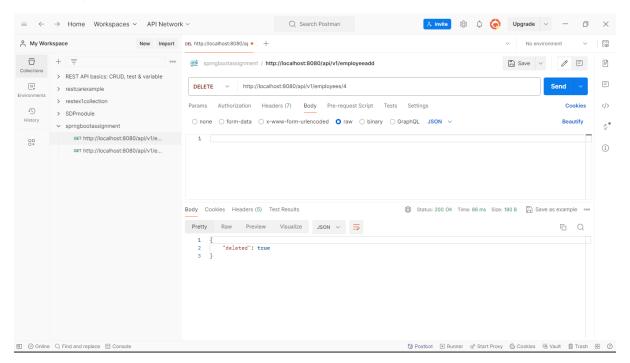
#### **Output:**

#### Adding Employee:



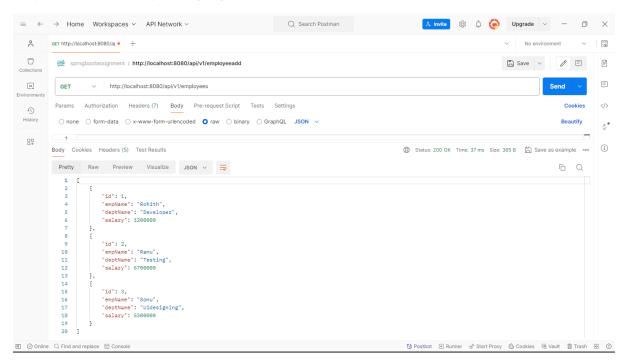


## Delete employee:

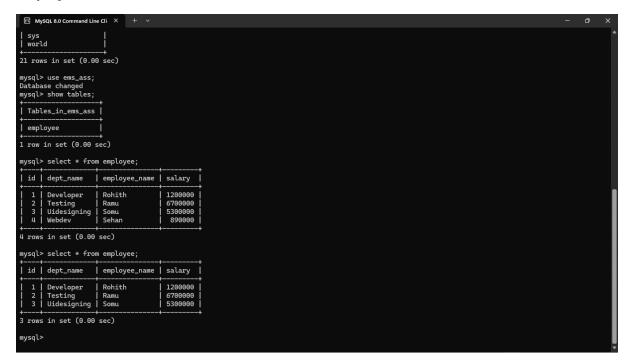


```
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  sys
world
21 rows in set (0.00 sec)
mysql> use ems_ass;
Database changed
mysql> show tables;
Tables_in_ems_ass
 employee
1 row in set (0.00 sec)
mysql> select * from employee;
1 | Developer | Rohith
2 | Testing | Ramu
3 | Uidesigning | Somu
4 | Webdev | Sehan
                                              890000
4 rows in set (0.00 sec)
mysql> select * from employee;
| id | dept_name | employee_name | salary
   1 | Developer | Rohith
2 | Testing | Ramu
3 | Uidesigning | Somu
                                             1200000
6700000
5300000
3 rows in set (0.00 sec)
mysql>|
```

## Displaying all the employee(get):



# Employee data stored in database:



#### **Updating Employee:**

