**1. EmployeeController.java**

package com.cognizant.spring\_learn.controller;

import javax.validation.Valid;

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

import org.springframework.web.bind.annotation.\*;

import com.cognizant.spring\_learn.model.Employee;

import com.cognizant.spring\_learn.service.EmployeeService;

@RestController

public class EmployeeController {

@Autowired

private EmployeeService employeeService;

@GetMapping("/employees")

public List<Employee> getAllEmployees() {

return employeeService.getAllEmployees();

}

@PutMapping("/employees")

public void updateEmployee(@RequestBody @Valid Employee employee) {

employeeService.updateEmployee(employee);

}

}

**2. EmployeeService.java**

package com.cognizant.spring\_learn.service;

import java.util.List;

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

import org.springframework.stereotype.Service;

import com.cognizant.spring\_learn.dao.EmployeeDao;

import com.cognizant.spring\_learn.model.Employee;

@Service

public class EmployeeService {

@Autowired

private EmployeeDao employeeDao;

public List<Employee> getAllEmployees() {

return employeeDao.getAllEmployees();

}

public void updateEmployee(Employee employee) {

employeeDao.updateEmployee(employee);

}

}

**3. EmployeeDao.java**

package com.cognizant.spring\_learn.dao;

import java.text.ParseException;

import java.text.SimpleDateFormat;

import java.util.\*;

import org.springframework.stereotype.Repository;

import com.cognizant.spring\_learn.model.\*;

@Repository

public class EmployeeDao {

private static List<Employee> employeeList;

static {

try {

employeeList = new ArrayList<>();

SimpleDateFormat sdf = new SimpleDateFormat("dd/MM/yyyy");

Department dept = new Department();

dept.setId(1);

dept.setName("HR");

Skill skill1 = new Skill();

skill1.setId(1);

skill1.setName("Java");

Skill skill2 = new Skill();

skill2.setId(2);

skill2.setName("Spring Boot");

List<Skill> skills = Arrays.asList(skill1, skill2);

Employee emp = new Employee();

emp.setId(1);

emp.setName("John Doe");

emp.setSalary(50000.0);

emp.setPermanent(true);

emp.setDateOfBirth(sdf.parse("01/01/1990"));

emp.setDepartment(dept);

emp.setSkillList(skills);

employeeList.add(emp);

} catch (ParseException e) {

e.printStackTrace();

}

}

public List<Employee> getAllEmployees() {

return employeeList;

}

public void updateEmployee(Employee updatedEmployee) {

for (int i = 0; i < employeeList.size(); i++) {

Employee emp = employeeList.get(i);

if (emp.getId().equals(updatedEmployee.getId())) {

employeeList.set(i, updatedEmployee);

return;

}

}

throw new RuntimeException("Employee not found with ID: " + updatedEmployee.getId());

}

}

**OUTPUT:**





