**Hands On 7: Implement REST service for updating an employee**

**EmployeeDao**

package com.cognizant.orm\_learn.dao;

import com.cognizant.orm\_learn.exception.EmployeeNotFoundException;

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

import org.springframework.stereotype.Repository;

import java.util.ArrayList;

import java.util.List;

@Repository

public class EmployeeDao {

private static List<Employee> employeeList = new ArrayList<>();

static {

employeeList.add(new Employee(1, "John Doe", 50000.0, true, "01/01/1990"));

employeeList.add(new Employee(2, "Jane Smith", 60000.0, false, "02/02/1985"));

}

public void updateEmployee(Employee updatedEmployee) throws EmployeeNotFoundException {

boolean found = false;

for (Employee emp : employeeList) {

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

emp.setName(updatedEmployee.getName());

emp.setSalary(updatedEmployee.getSalary());

emp.setPermanent(updatedEmployee.getPermanent());

emp.setDateOfBirth(updatedEmployee.getDateOfBirth());

emp.setDepartment(updatedEmployee.getDepartment());

emp.setSkillList(updatedEmployee.getSkillList());

found = true;

break;

}

}

if (!found) {

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

}

}

public List<Employee> getAllEmployees() {

return employeeList;

}

}

**EmployeeNotFoundException**

package com.cognizant.orm\_learn.exception;

import org.springframework.http.HttpStatus;

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

@ResponseStatus(HttpStatus.NOT\_FOUND)

public class EmployeeNotFoundException extends Exception {

private static final long serialVersionUID = 1L;

public EmployeeNotFoundException(String message) {

super(message);

}

}

**EmployeeController**

package com.cognizant.orm\_learn.controller;

import com.cognizant.orm\_learn.exception.EmployeeNotFoundException;

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

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

import jakarta.validation.Valid;

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

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

import java.util.List;

@RestController

@RequestMapping("/employees")

public class EmployeeController {

@Autowired

private EmployeeService employeeService;

@PutMapping

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

employeeService.updateEmployee(employee);

}

@GetMapping

public List<Employee> getAllEmployees() {

return employeeService.getAllEmployees();

}

}

**EmployeeService**

package com.cognizant.orm\_learn.service;

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

import com.cognizant.orm\_learn.exception.EmployeeNotFoundException;

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

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

import org.springframework.stereotype.Service;

import java.util.List;

@Service

public class EmployeeService {

@Autowired

private EmployeeDao employeeDao;

public void updateEmployee(Employee employee) throws EmployeeNotFoundException {

employeeDao.updateEmployee(employee);

}

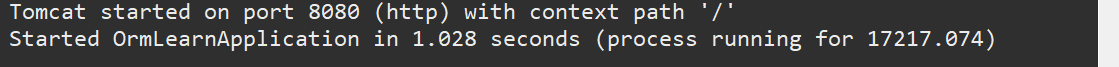
public List<Employee> getAllEmployees() {

return employeeDao.getAllEmployees();

}

}

**Output**

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