**Problem Statement - Display Employee List and Edit Employee form using RESTful Web Service**   
  
In the previous angular module, we developed a screen that lists employees and it was populated with hard coded values. Now this angular application has be changed to get the data from RESTful Web Service developed in Spring. The following are the high level activities that needs to be done to accomplish this: 

* Create static employee list data using spring xml configuration

* Create a REST Service that reads data from xml configuration and returns it

* Make changes in angular component to consume the created REST Service

**EmployeeController.java:**

package com.cognizant.spring\_learn.controller;

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

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

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

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

import java.util.List;

@RestController

@CrossOrigin(origins = "http://localhost:4200") // allow Angular calls

@RequestMapping("/api/employees")

public class EmployeeController {

    @Autowired

    private EmployeeService employeeService;

    @GetMapping

    public List<Employee> getAllEmployees() {

        return employeeService.getAllEmployees();

    }

    @GetMapping("/{id}")

    public Employee getEmployeeById(@PathVariable int id) {

        return employeeService.getEmployeeById(id);

    }

}

**Employee.java:**

package com.cognizant.spring\_learn.model;

public class Employee {

    private int id;

    private String name;

    private double salary;

    // Default constructor (required by Spring)

    public Employee() {

    }

    // Parameterized constructor (optional, for convenience)

    public Employee(int id, String name, double salary) {

        this.id = id;

        this.name = name;

        this.salary = salary;

    }

    // Getter and Setter for ID

    public int getId() {

        return id;

    }

    public void setId(int id) {

        this.id = id;

    }

    // Getter and Setter for Name

    public String getName() {

        return name;

    }

    public void setName(String name) {

        this.name = name;

    }

    // Getter and Setter for Salary

    public double getSalary() {

        return salary;

    }

    public void setSalary(double salary) {

        this.salary = salary;

    }

    // Optional: toString() method for debugging

    @Override

    public String toString() {

        return "Employee{" +

               "id=" + id +

               ", name='" + name + '\'' +

               ", salary=" + salary +

               '}';

    }

}

**EmployeeService.java:**

package com.cognizant.spring\_learn.service;

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

import org.springframework.context.ApplicationContext;

import org.springframework.context.support.ClassPathXmlApplicationContext;

import org.springframework.stereotype.Service;

import java.util.List;

@Service

public class EmployeeService {

    private ApplicationContext context = new ClassPathXmlApplicationContext("employee.xml");

    public List<Employee> getAllEmployees() {

        return (List<Employee>) context.getBean("employeeList");

    }

    public Employee getEmployeeById(int id) {

        List<Employee> list = getAllEmployees();

        return list.stream().filter(emp -> emp.getId() == id).findFirst().orElse(null);

    }

}

**OUTPUT:**



