**Display Employee List and Edit Employee form using RESTful Web Service**

**SpringLearn1Application.java**

package com.cognizant.spring\_learn1;

import org.springframework.boot.SpringApplication;

import org.springframework.boot.autoconfigure.SpringBootApplication;

@SpringBootApplication

public class SpringLearn1Application {

    public static void main(String[] args) {

        SpringApplication.run(SpringLearn1Application.class, args);

    }

}

**Employee.java**

package com.cognizant.spring\_learn1.model;

public class Employee {

    private int id;

    private String name;

    private String department;

    // Constructors

    public Employee() {}

    public Employee(int id, String name, String department) {

        this.id = id;

        this.name = name;

        this.department = department;

    }

    // Getters and Setters

    public int getId() { return id; }

    public void setId(int id) { this.id = id; }

    public String getName() { return name; }

    public void setName(String name) { this.name = name; }

    public String getDepartment() { return department; }

    public void setDepartment(String department) { this.department = department; }

}

**EmployeeController.java**

package com.cognizant.spring\_learn1.controller;

import com.cognizant.spring\_learn1.model.Employee;

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

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

import java.util.List;

@RestController

@RequestMapping("/api/employees")

public class EmployeeController {

    @Autowired

    private List<Employee> employeeList;

    @GetMapping

    public List<Employee> getAllEmployees() {

        return employeeList;

    }

    @GetMapping("/{id}")

    public Employee getEmployeeById(@PathVariable int id) {

        return employeeList.stream()

                .filter(emp -> emp.getId() == id)

                .findFirst()

                .orElse(null);

    }

}

**EmployeeConfig.java**

package com.cognizant.spring\_learn1.config;

import com.cognizant.spring\_learn1.model.Employee;

import org.springframework.context.ApplicationContext;

import org.springframework.context.support.ClassPathXmlApplicationContext;

import org.springframework.context.annotation.Bean;

import org.springframework.context.annotation.Configuration;

import java.util.List;

@Configuration

public class EmployeeConfig {

    @Bean

    public List<Employee> employeeList() {

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

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

    }

}

**employee.xml**

<beans xmlns="http://www.springframework.org/schema/beans"

       xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

       xsi:schemaLocation="http://www.springframework.org/schema/beans

       http://www.springframework.org/schema/beans/spring-beans.xsd">

    <bean id="employeeList" class="java.util.ArrayList">

        <constructor-arg>

            <list>

                <bean class="com.cognizant.spring\_learn1.model.Employee">

                    <property name="id" value="1"/>

                    <property name="name" value="John Doe"/>

                    <property name="department" value="HR"/>

                </bean>

                <bean class="com.cognizant.spring\_learn1.model.Employee">

                    <property name="id" value="2"/>

                    <property name="name" value="Jane Smith"/>

                    <property name="department" value="Finance"/>

                </bean>

            </list>

        </constructor-arg>

    </bean>

</beans>

**pom.xml**

<?xml version="1.0" encoding="UTF-8"?>

<project xmlns="http://maven.apache.org/POM/4.0.0"

         xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

         xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 https://maven.apache.org/xsd/maven-4.0.0.xsd">

    <modelVersion>4.0.0</modelVersion>

    <parent>

        <groupId>org.springframework.boot</groupId>

        <artifactId>spring-boot-starter-parent</artifactId>

        <version>3.1.12</version>

        <relativePath/>

    </parent>

    <groupId>com.cognizant</groupId>

    <artifactId>spring-learn1</artifactId>

    <version>0.0.1-SNAPSHOT</version>

    <name>spring-learn1</name>

    <description>Demo project for Spring Boot</description>

    <properties>

        <java.version>17</java.version>

    </properties>

    <dependencies>

        <!-- Spring Web -->

        <dependency>

            <groupId>org.springframework.boot</groupId>

            <artifactId>spring-boot-starter-web</artifactId>

        </dependency>

        <!-- Spring Context for XML support -->

        <dependency>

            <groupId>org.springframework</groupId>

            <artifactId>spring-context</artifactId>

        </dependency>

        <!-- Testing -->

        <dependency>

            <groupId>org.springframework.boot</groupId>

            <artifactId>spring-boot-starter-test</artifactId>

            <scope>test</scope>

        </dependency>

    </dependencies>

    <build>

        <plugins>

            <!-- Spring Boot Maven Plugin -->

            <plugin>

                <groupId>org.springframework.boot</groupId>

                <artifactId>spring-boot-maven-plugin</artifactId>

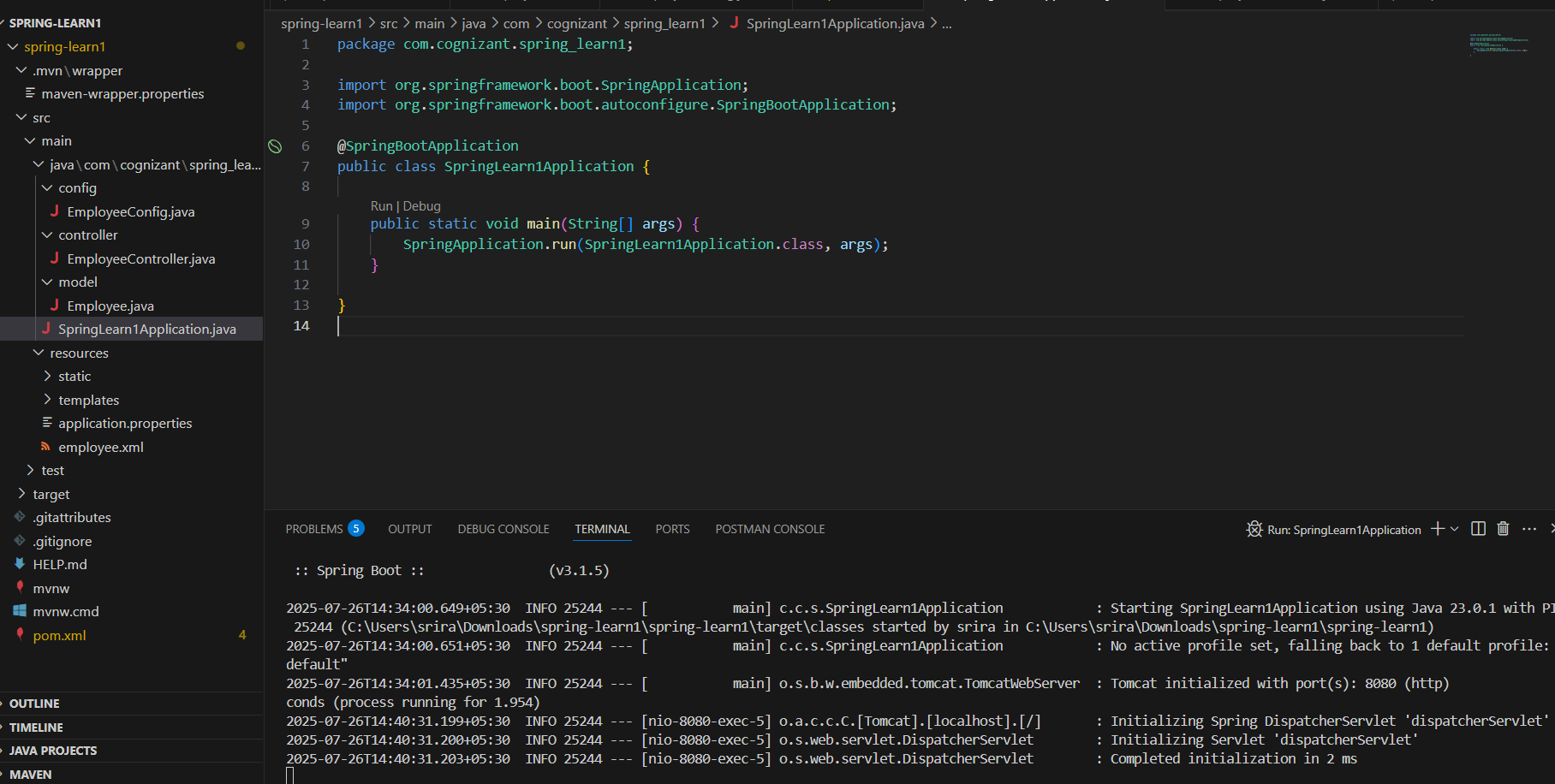
            </plugin>

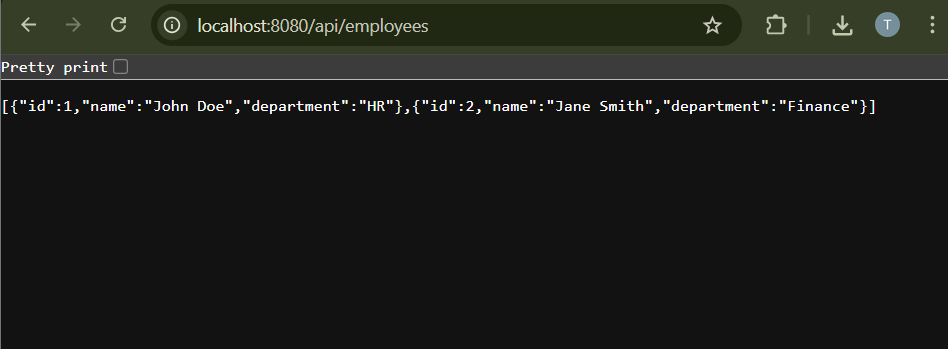
        </plugins>

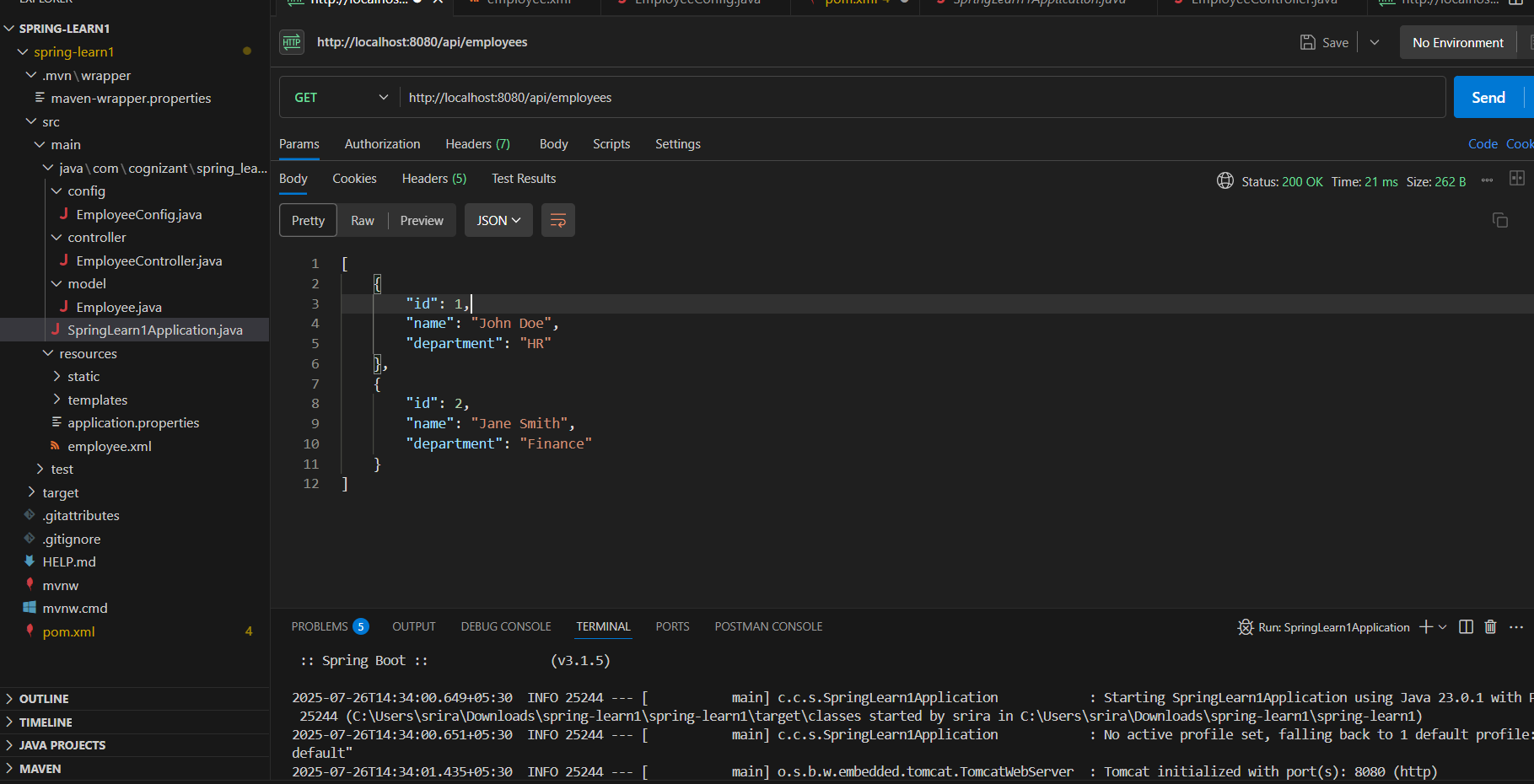
    </build>

</project>

**Output:**

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