**Create REST service to gets all employees**

**Employee.java**

package com.cognizant.springlearn.model;

import java.util.Date;

import java.util.List;

public class Employee {

private int id;

private String name;

private double salary;

private boolean permanent;

private Date dateOfBirth;

private Department department;

private List<Skill> skills;

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 double getSalary() {

return salary;

}

public void setSalary(double salary) {

this.salary = salary;

}

public boolean isPermanent() {

return permanent;

}

public void setPermanent(boolean permanent) {

this.permanent = permanent;

}

public Date getDateOfBirth() {

return dateOfBirth;

}

public void setDateOfBirth(Date dateOfBirth) {

this.dateOfBirth = dateOfBirth;

}

public Department getDepartment() {

return department;

}

public void setDepartment(Department department) {

this.department = department;

}

public List<Skill> getSkills() {

return skills;

}

public void setSkills(List<Skill> skills) {

this.skills = skills;

}

}

**Department.java**

package com.cognizant.springlearn.model;

public class Department {

private int id;

private String name;

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;

}

}

**Skill.java**

package com.cognizant.springlearn.model;

public class Skill {

private int id;

private String name;

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;

}

}

**EmployeeDao.java**

package com.cognizant.springlearn.dao;

import com.cognizant.springlearn.model.Employee;

import org.springframework.context.support.ClassPathXmlApplicationContext;

import org.springframework.stereotype.Repository;

import java.util.List;

@Repository

public class EmployeeDao {

private static List<Employee> EMPLOYEE\_LIST;

public EmployeeDao() {

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

EMPLOYEE\_LIST = context.getBean("employeeList", List.class);

}

public List<Employee> getAllEmployees() {

return EMPLOYEE\_LIST;

}

}

**EmployeeService.java**

package com.cognizant.springlearn.service;

import com.cognizant.springlearn.dao.EmployeeDao;

import com.cognizant.springlearn.model.Employee;

import org.springframework.stereotype.Service;

import org.springframework.transaction.annotation.Transactional;

import java.util.List;

@Service

public class EmployeeService {

private final EmployeeDao employeeDao;

public EmployeeService(EmployeeDao employeeDao) {

this.employeeDao = employeeDao;

}

@Transactional

public List<Employee> getAllEmployees() {

return employeeDao.getAllEmployees();

}

}

**EmployeeController.java**

package com.cognizant.springlearn.controller;

import com.cognizant.springlearn.model.Employee;

import com.cognizant.springlearn.service.EmployeeService;

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

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

import java.util.List;

@RestController

public class EmployeeController {

private final EmployeeService employeeService;

public EmployeeController(EmployeeService employeeService) {

this.employeeService = employeeService;

}

@GetMapping("/employees")

public List<Employee> getAllEmployees() {

return employeeService.getAllEmployees();

}

}

**Employee.xml**

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

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

xmlns:context="http://www.springframework.org/schema/context"

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

http://www.springframework.org/schema/context

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

<bean id="department" class="com.cognizant.springlearn.model.Department">

<property name="id" value="101"/>

<property name="name" value="Technology"/>

</bean>

<bean id="skill1" class="com.cognizant.springlearn.model.Skill">

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

<property name="name" value="Java"/>

</bean>

<bean id="skill2" class="com.cognizant.springlearn.model.Skill">

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

<property name="name" value="Spring Boot"/>

</bean>

<bean id="employee1" class="com.cognizant.springlearn.model.Employee">

<property name="id" value="1001"/>

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

<property name="salary" value="60000"/>

<property name="permanent" value="true"/>

<property name="dateOfBirth">

<bean class="java.util.Date"/>

</property>

<property name="department" ref="department"/>

<property name="skills">

<list>

<ref bean="skill1"/>

<ref bean="skill2"/>

</list>

</property>

</bean>

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

<constructor-arg>

<list>

<ref bean="employee1"/>

</list>

</constructor-arg>

</bean>

</beans>

**Applications.properties**

spring.main.allow-bean-definition-overriding=true

**SpringLearnApplication.java**

package com.cognizant.springlearn;

import org.springframework.boot.SpringApplication;

import org.springframework.boot.autoconfigure.SpringBootApplication;

@SpringBootApplication

public class SpringLearnApplication {

public static void main(String[] args) {

SpringApplication.run(SpringLearnApplication.class, args);

}

}



