Spring REST Hands-on Part 3 - Answers

**Static Employee List in XML**

employee.xml:

<bean id="dep1" class="com.cognizant.springlearn.Department">  
 <property name="id" value="1"/>  
 <property name="name" value="HR"/>  
</bean>  
<bean id="dep2" class="com.cognizant.springlearn.Department">  
 <property name="id" value="2"/>  
 <property name="name" value="Finance"/>  
</bean>  
  
<bean id="emp1" class="com.cognizant.springlearn.Employee">  
 <property name="id" value="1"/>  
 <property name="name" value="John"/>  
 <property name="department" ref="dep1"/>  
</bean>  
<!-- Add emp2, emp3, emp4 similarly -->  
  
<bean id="employeeList" class="java.util.ArrayList">  
 <constructor-arg>  
 <list>  
 <ref bean="emp1"/>  
 <ref bean="emp2"/>  
 <ref bean="emp3"/>  
 <ref bean="emp4"/>  
 </list>  
 </constructor-arg>  
</bean>

**EmployeeDao.java**

@Repository  
public class EmployeeDao {  
 private static List<Employee> EMPLOYEE\_LIST;  
  
 public EmployeeDao() {  
 ApplicationContext context = new ClassPathXmlApplicationContext("employee.xml");  
 EMPLOYEE\_LIST = context.getBean("employeeList", List.class);  
 }  
  
 public List<Employee> getAllEmployees() {  
 return EMPLOYEE\_LIST;  
 }  
}

**EmployeeService.java**

@Service  
public class EmployeeService {  
 @Autowired  
 private EmployeeDao employeeDao;  
  
 @Transactional  
 public List<Employee> getAllEmployees() {  
 return employeeDao.getAllEmployees();  
 }  
}

**EmployeeController.java**

@RestController  
public class EmployeeController {  
 @Autowired  
 private EmployeeService employeeService;  
  
 @GetMapping("/employees")  
 public List<Employee> getAllEmployees() {  
 return employeeService.getAllEmployees();  
 }  
}

**DepartmentDao.java**

@Repository  
public class DepartmentDao {  
 private static List<Department> DEPARTMENT\_LIST;  
  
 public DepartmentDao() {  
 ApplicationContext context = new ClassPathXmlApplicationContext("employee.xml");  
 DEPARTMENT\_LIST = context.getBean("departmentList", List.class);  
 }  
  
 public List<Department> getAllDepartments() {  
 return DEPARTMENT\_LIST;  
 }  
}

**DepartmentService.java**

@Service  
public class DepartmentService {  
 @Autowired  
 private DepartmentDao departmentDao;  
  
 @Transactional  
 public List<Department> getAllDepartments() {  
 return departmentDao.getAllDepartments();  
 }  
}

**DepartmentController.java**

@RestController  
public class DepartmentController {  
 @Autowired  
 private DepartmentService departmentService;  
  
 @GetMapping("/departments")  
 public List<Department> getAllDepartments() {  
 return departmentService.getAllDepartments();  
 }  
}