Spring Example Applications (XML, Java and Annotations) - by RAGHU SIR



STS 3 Download:

https://download.springsource.com/release/STS/3.9.11.RELEASE/dist/e4.14/spring-tool-suite-3.9.11.RELEASE-e4.14.0-win32-x86_64.zip

STS 4 Download:

https://download.springsource.com/release/STS4/4.5.0.RELEASE/dist/e4.14/spring-tool-suite-4-4.5.0.RELEASE-e4.14.0-win32.win32.x86 64.self-extracting.jar

Spring XML Configuration Example:-

Step#1 Create Maven Project

> File > new > maven project > choose check box "[v] Create Simple Project" > next > Enter Details

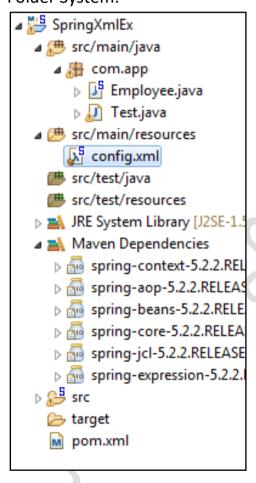
GroupId: in.nit

ArtifactId: SpringXmlEx

Version: 1.0

> Finish

<u>Step#3</u> create classes under src/main/java folder
<u>Step#4</u> Create XML Config file under src/main/resources
> Right click on src/main/resources > new > Spring Bean Configuration File > provide name ex: config.xml > next > finish.
Folder System:



```
Code:-
1. Spring Bean
package com.app;
public class Employee {
```

```
private int eid;
    private String ename;
    private double esal;
    //Default constructor
    //alt+shift+S,0>Deselectall>OK
    public Employee() {
         super();
    //set,get
    //alt+shift+S,R>Selectall>OK
    public int getEid() {
         return eid;
    public void setEid(int eid) {
         this.eid = eid;
    public String getEname() {
         return ename;
    public void setEname(String ename) {
         this.ename = ename;
    public double getEsal()
         return esal;
    public void setEsal(double esal) {
         this.esal = esal;
    //alt+shift+S,S>OK
    @Override
    public String toString() {
       return "Employee [eid=" + eid + ", ename=" +
ename + ", esal=" + esal + "]";
}
2.config.xml
<?xml version="1.0" encoding="UTF-8"?>
```

```
<beans xmlns="http://www.springframework.org/schema/beans"</pre>
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xsi:schemaLocation="http://www.springframework.org/sc
hema/beans
http://www.springframework.org/schema/beans/spring-
beans.xsd">
    <bean class="com.app.Employee" name="emp">
         cproperty name="eid" value="20"/>
         property name="ename" value="RAGHU"/>
         cproperty name="esal" value="9.9"/>
     </bean>
</beans>
3.Test class:
package com.app;
import org.springframework.context.ApplicationContext;
import
org.springframework.context.support.ClassPathXmlApplicatio
nContext;
//ctrl+shift+0 (to get imports)
public class Test {
    public static void main(String[] args) {
         //ctrl+F11 :to run code
         ApplicationContext ac=new
ClassPathXmlApplicationContext("config.xml");
         Object ob=ac.getBean("emp");
         Employee e=(Employee)ob;
         System.out.println(e);
```

Spring Java Configuration Example:-

```
1. Spring Bean
package com.app;
public class Employee {
    private int eid;
    private String ename;
    private double esal;
     //Default constructor
    //alt+shift+S,0>Deselectall>OK
    public Employee() {
         super();
    //set,get
    //alt+shift+S,R>Selectall>OK
    public int getEid() {
         return eid;
    public void setEid(int eid)
         this.eid = eid;
    public String getEname() {
         return ename;
    public void setEname(String ename) {
         this.ename = ename;
    public double getEsal() {
         return esal;
    public void setEsal(double esal) {
         this.esal = esal;
     //alt+shift+S,S>OK
    @Override
    public String toString() {
         return "Employee [eid=" + eid + ", ename=" +
ename + ", esal=" + esal + "]";
```

```
- by RAGHU SIR [NareshIT, Hyderabad]
}
2. Java Config File
package com.app;
import org.springframework.context.annotation.Bean;
import
org.springframework.context.annotation.Configuration;
//ctrl+shift+0
                (to get imports)
@Configuration
public class AppConfig {
     //no.of methods = no.of objects
     @Bean
     public Employee emp() {
          Employee e=new Employee();
         e.setEid(10);
         e.setEname("RAGHU");
          e.setEsal(9.9);
          return e;
}
3. Test class:
package com.app;
import org.springframework.context.ApplicationContext;
import
org.springframework.context.annotation.AnnotationConfigApp
licationContext;
//ctrl+shift+0 (to get imports)
public class Test {
     public static void main(String[] args) {
         //ctrl+F11 :to run code
         ApplicationContext ac=new
AnnotationConfigApplicationContext(AppConfig.class);
```

```
Object ob=ac.getBean("emp");
    Employee e=(Employee)ob;
    System.out.println(e);
}
```

Spring Annotation Configuration Example:

1. Spring Bean and Spring Annotation Config File

```
package com.app;
import org.springframework.beans.factory.annotation.Value;
import org.springframework.stereotype.Component;
@Component("emp")
public class Employee {
    @Value("101")
    private int eid;
    @Value("RAGHU")
    private String ename;
    @Value("6.6")
    private double esal;
    //Default constructor
    //alt+shift+S,0>Deselectall>OK
    public Employee() {
         super();
    //set,get
     //alt+shift+S,R>Selectall>OK
    public int getEid() {
         return eid;
    public void setEid(int eid) {
         this.eid = eid;
    public String getEname() {
         return ename;
     }
```

```
public void setEname(String ename) {
         this.ename = ename;
    public double getEsal() {
         return esal;
    public void setEsal(double esal) {
         this.esal = esal;
    //alt+shift+S,S>OK
    @Override
    public String toString() {
         return "Employee [eid=" + eid +
ename + ", esal=" + esal + "]";
}
2. AppConfig File
package com.app;
import
org.springframework.context.annotation.ComponentScan;
import
org.springframework.context.annotation.Configuration;
//ctrl+shift+0 (to get imports)
@Configuration
@ComponentScan("com.app")
public class AppConfig {
}
3. Test class
package com.app;
import org.springframework.context.ApplicationContext;
```

```
import
org.springframework.context.annotation.AnnotationConfigApp
licationContext;
//ctrl+shift+0 (to get imports)
public class Test {

    public static void main(String[] args) {
        //ctrl+F11 :to run code
        ApplicationContext ac=new
AnnotationConfigApplicationContext(AppConfig.class);
        Object ob=ac.getBean("emp");
        Employee e=(Employee)ob;
        System.out.println(e);
    }
}
```

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