## **Spring XML Based Configuration**

In this topic, we will learn to create a String application and configure it using the XML code. Let's create a maven project and configure it using the XML file. If you are not familiar with the maven project, then you can read our detailed article.

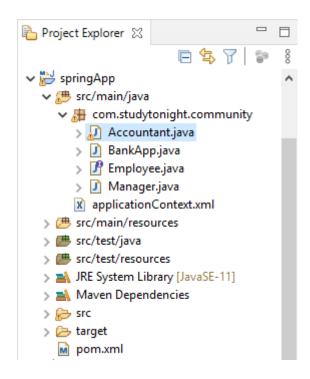
The following are the files created in our project. The source code of these files is given below.

- Employee.java
- Engineer.java
- Manager.java
- BankApp.java

And the following is our project structure after creating all the above files (java and xml).

### Spring Project Structure:

Following is the structure of the project:



Now let's create the Java classes and the XML configuration file.

### Employee.java

It is an interface that contains an abstract method doWork() which will be overridden by the implemented class.

```
package com.studytonight.community;
public interface Employee
{
    void doWork();
}
```

### Accountant.java

It is our bean class that will be used to perform implementations. It implements the Employee interface and implements doWork() method.

### Manager.java

This is another class that implements the Employee interface and overrides the doWork() method.

```
package com.studytonight.community;

public class Manager implements Employee
{
      public void doWork()
      {
            System.out.println("Manage the branch office");
      }
}
```

### BankApp.java

It is a configuration file that reads the applicationContext file and get Bean using the getBean() method and then call method based on the retrieved object.

#### applicationContext.xml

It is an application context file that configures spring and registers the bean.

```
<?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"
xmlns:p="http://www.springframework.org/schema/p"
        xmlns:aop="http://www.springframework.org/schema/aop"
xmlns:context="http://www.springframework.org/schema/context"
        xmlns:jee="http://www.springframework.org/schema/jee"
xmlns:tx="http://www.springframework.org/schema/tx"
        xmlns:task="http://www.springframework.org/schema/task"
        xsi:schemaLocation="http://www.springframework.org/schema/aop
http://www.springframework.org/schema/aop/spring-aop-3.2.xsd
http://www.springframework.org/schema/beans
http://www.springframework.org/schema/beans/spring-beans-3.2.xsd
http://www.springframework.org/schema/context
http://www.springframework.org/schema/context/spring-context-3.2.xsd
http://www.springframework.org/schema/jee http://www.springframework.org/schema/jee/spring-jee-3.2.xsd
http://www.springframework.org/schema/tx http://www.springframework.org/schema/tx/spring-tx-3.2.xsd
http://www.springframework.org/schema/task
http://www.springframework.org/schema/task/spring-task-3.2.xsd">
        <bean id="manager"
                class="com.studytonight.community.Manager">
        </bean>
</beans>
```

### pom.xml

This file contains all the dependencies of this project such as spring jars, servlet jars, etc. Put these dependencies into your project to run the application.

```
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>
 <groupId>com.studytonight</groupId>
 <artifactId>springApp</artifactId>
 <version>0.0.1-SNAPSHOT
 <dependencies>
      <!-- https://mvnrepository.com/artifact/org.springframework/spring-web -->
            <dependency>
                   <groupId>org.springframework</groupId>
                   <artifactId>spring-core</artifactId>
                   <version>${spring.version}</version>
            </dependency>
            <dependency>
                   <groupId>org.springframework</groupId>
                   <artifactId>spring-context</artifactId>
                   <version>${spring.version}</version>
            </dependency>
            <dependency>
                   <groupId>javax.annotation</groupId>
                   <artifactId>javax.annotation-api</artifactId>
                   <version>1.3.2</version>
            </dependency>
      </dependencies>
      cproperties>
            <spring.version>5.2.8.RELEASE</spring.version>
      </properties>
      <build>
            <sourceDirectory>src</sourceDirectory>
            <plugins>
                   <plugin>
                         <artifactId>maven-compiler-plugin</artifactId>
                         <version>3.8.1</version>
```