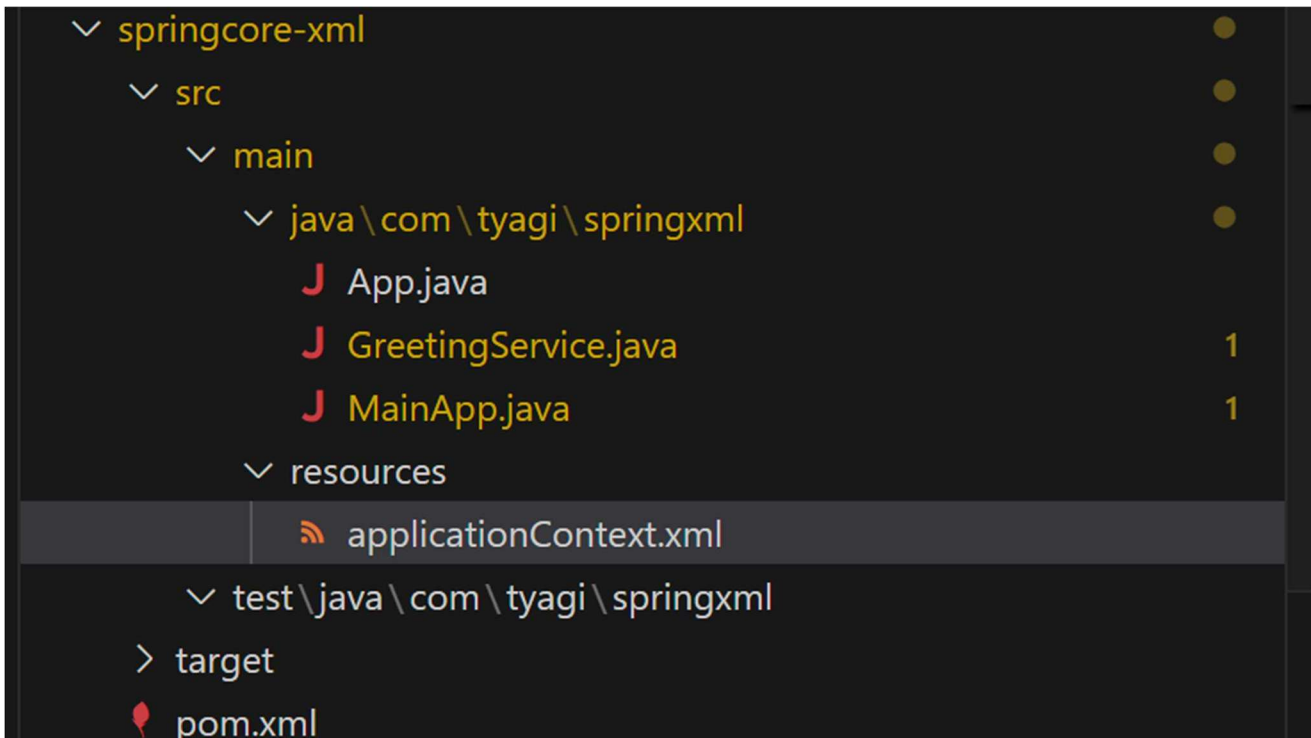


## Week3\_1\_Spring Core and Maven\_Exercise2\_ Implementing Dependency Injection

### Creating Project

```
C:\Users\veert\OneDrive\Desktop\JUnit>mvn archetype:generate -DgroupId=com.tyagi.springxml -DartifactId=springcore-xml -DarchetypeArtifactId=maven-archetype-quickstart -DinteractiveMode=false
Picked up JAVA_TOOL_OPTIONS: -Dstdout.encoding=UTF-8 -Dstderr.encoding=UTF-8
[INFO] Scanning for projects...
[INFO] -----< org.apache.maven:standalone-pom >-----
[INFO] Building Maven Stub Project (No POM) 1
[INFO] -----[ pom ]-----
[INFO] >>> archetype:3.4.0:generate (default-cli) > generate-sources @ standalone-pom >>>
[INFO] <<< archetype:3.4.0:generate (default-cli) < generate-sources @ standalone-pom <<<
[INFO] --- archetype:3.4.0:generate (default-cli) @ standalone-pom ---
[INFO] Generating project in Batch mode
[INFO] -----
[INFO] Project from Old (1.x) Archetype: maven-archetype-quickstart:1.0
[INFO] -----
[INFO] Parameter: basedir, Value: C:\Users\veert\OneDrive\Desktop\JUnit
[INFO] Parameter: package, Value: com.tyagi.springxml
[INFO] Parameter: groupId, Value: com.tyagi.springxml
[INFO] Parameter: artifactId, Value: springcore-xml
[INFO] Parameter: packageName, Value: com.tyagi.springxml
[INFO] Parameter: version, Value: 1.0-SNAPSHOT
[INFO] Project created from Old (1.x) Archetype in dir: C:\Users\veert\OneDrive\Desktop\JUnit\springcore-xml
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 1.968 s
[INFO] Finished at: 2025-07-03T22:28:44+05:30
[INFO] -----
```

### Folder Structure



### GreetingService.java

```
springcore-xml > src > main > java > com > tyagi > springxml > J GreetingService.java > ...
1  package com.tyagi.springxml;
2
3  public class GreetingService {
4      public void greet() {
5          System.out.println(x:"Hello from XML-based Spring Configuration!");
6      }
7  }
8
```

### MainApp.java

```
springcore-xml > src > main > java > com > tyagi > springxml > J MainApp.java > ...
1  package com.tyagi.springxml;
2
3  import org.springframework.context.ApplicationContext;
4  import org.springframework.context.support.ClassPathXmlApplicationContext;
5
6  public class MainApp {
7      Run | Debug
8      public static void main(String[] args) {
9          ApplicationContext context = new ClassPathXmlApplicationContext("applicationContext.xml");
10         GreetingService service = (GreetingService) context.getBean("greetingService");
11         service.greet();
12     }
13 }
```

### applicationContext.xml

```
springcore-xml > src > main > resources > applicationContext.xml
1  <?xml version="1.0" encoding="UTF-8"?>
2  <beans xmlns="http://www.springframework.org/schema/beans"
3      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
4      xsi:schemaLocation="
5          http://www.springframework.org/schema/beans
6          http://www.springframework.org/schema/beans/spring-beans.xsd">
7
8      <bean id="greetingService" class="com.tyagi.springxml.GreetingService" />
9  </beans>
10
```

## Pom.xml

```
springcore-xml > pom.xml
1  <project xmlns="http://maven.apache.org/POM/4.0.0"
2      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
3      xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
4      http://maven.apache.org/xsd/maven-4.0.0.xsd">
5      <modelVersion>4.0.0</modelVersion>
6      <groupId>com.tyagi.springxml</groupId>
7      <artifactId>springcore-xml</artifactId>
8      <version>1.0-SNAPSHOT</version>
9
10     <dependencies>
11         <dependency>
12             <groupId>org.springframework</groupId>
13             <artifactId>spring-context</artifactId>
14             <version>5.3.22</version>
15         </dependency>
16     </dependencies>
17
18     <build>
19         <plugins>
20             <plugin>
21                 <groupId>org.codehaus.mojo</groupId>
22                 <artifactId>exec-maven-plugin</artifactId>
23                 <version>3.1.0</version>
24                 <configuration>
25                     <mainClass>com.tyagi.springxml.MainApp</mainClass>
26                 </configuration>
27             </plugin>
28         </plugins>
29     </build>
30 </project>
31
```

## Output

```
[INFO] Scanning for projects...
ingxml:springcore-xml >-----
[INFO] Building springcore-xml 1.0-SNAPSHOT
[INFO]   from pom.xml
[INFO] -----[ jar ]-----
-----
[INFO]
[INFO] --- exec:3.1.0:java (default-cli) @ springcore-xml ---
Hello from XML-based Spring Configuration!
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time:  0.929 s
[INFO] Finished at: 2025-07-03T22:34:13+05:30
[INFO] -----

C:\Users\veert\OneDrive\Desktop\JUnit\springcore-xml>
```