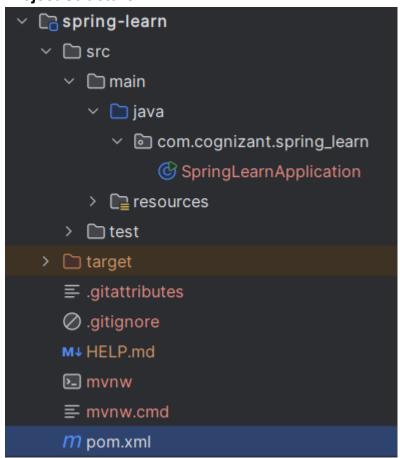
# **Spring Rest Hands on (XML Configuration)**

**Source Code: Here** 

# Exercise-1: Create a Spring Web Project using Maven

# **Output:**

**Project Structure:** 



**Dependency Tree:** 

```
dependency: 3.8.1: tree (default-cli) @ spring-learn -
[INFO]
       com.cognizant:spring-learn:jar:0.0.1-SNAPSHOT
[INFO]
          org.springframework.boot:spring-boot-starter-web:jar:3.5.3:compile
              org.springframework.boot:spring-boot-starter:jar:3.5.3:compile
[INFO]
                org.springframework.boot:spring-boot-starter-logging:jar:3.5.3:compile
[INFO]
[INFO]
                    ch.qos.logback:logback-classic:jar:1.5.18:compile
                    \- ch.qos.logback:logback-core:jar:1.5.18:compile
[INFO]
                    org.apache.logging.log4j:log4j-to-slf4j:jar:2.24.3:compile

\- org.apache.logging.log4j:log4j-api:jar:2.24.3:compile

org.slf4j:jul-to-slf4j:jar:2.0.17:compile
[INFO]
[INFO]
[INFO]
                 jakarta.annotation:jakarta.annotation-api:jar:2.1.1:compile
[INFO]
[INFO]
              \- org.yaml:snakeyaml:jar:2.4:compile
[INFO]
              org.springframework.boot:spring-boot-starter-json:jar:3.5.3:compile
[INFO]
                com.fasterxml.jackson.core:jackson-databind:jar:2.19.1:compile
[INFO]
                  +- com.fasterxml.jackson.core:jackson-annotations:jar:2.19.1:compile
[INFO]
                 \- com.fasterxml.jackson.core:jackson-core:jar:2.19.1:compile
[INFO]
              +- com.fasterxml.jackson.datatype:jackson-datatype-jdk8:jar:2.19.1:compile
[INFO]
              +- com.fasterxml.jackson.datatype:jackson-datatype-jsr310:jar:2.19.1:compile
[INFO]
              \- com.fasterxml.jackson.module:jackson-module-parameter-names:jar:2.19.1:compile
[INFO]
              org.springframework.boot:spring-boot-starter-tomcat:jar:3.5.3:compile
[INFO]
              +- org.apache.tomcat.embed:tomcat-embed-core:jar:10.1.42:compile
              +- org.apache.tomcat.embed:tomcat-embed-el:jar:10.1.42:compile
[INFO]
[INFO]
              \- org.apache.tomcat.embed:tomcat-embed-websocket:jar:10.1.42:compile
              org.springframework:spring-web:jar:6.2.8:compile
[INFO]
              +- org.springframework:spring-beans:jar:6.2.8:compile
[INFO]
                 io.micrometer:micrometer-observation:jar:1.15.1:compile
[INFO]
[INFO]
                 \- io.micrometer:micrometer-commons:jar:1.15.1:compile
[INFO]
             org.springframework:spring-webmvc:jar:6.2.8:compile
[INFO]
              +- org.springframework:spring-aop:jar:6.2.8:compile
[INFO]
              +- org.springframework:spring-context:jar:6.2.8:compile
[INFO]
              \- org.springframework:spring-expression:jar:6.2.8:compile
          org.springframework.boot:spring-boot-devtools:jar:3.5.3:runtime (optional)
[INFO]
[INFO]
           +- org.springframework.boot:spring-boot:jar:3.5.3:compile
          \- org.springframework.boot:spring-boot-autoconfigure:jar:3.5.3:compile
[INFO]
[INFO]
          org.springframework.boot:spring-boot-starter-test:jar:3.5.3:test
[INFO]
             org.springframework.boot:spring-boot-test:jar:3.5.3:test
              org.springframework.boot:spring-boot-test-autoconfigure:jar:3.5.3:test
[INFO]
              com.jayway.jsonpath:json-path:jar:2.9.0:test
[INFO]
[INFO]
              \- org.slf4j:slf4j-api:jar:2.0.17:compile
              jakarta.xml.bind:jakarta.xml.bind-api:jar:4.0.2:test
[INFO]
              \- jakarta.activation:jakarta.activation-api:jar:2.1.3:test
[INFO]
[INFO]
              net.minidev:json-smart:jar:2.5.2:test
[INFO]
              \- net.minidev:accessors-smart:jar:2.5.2:test
[INFO]
                 \- org.ow2.asm:asm:jar:9.7.1:test
[INFO]
              org.assertj:assertj-core:jar:3.27.3:test
[INFO]
              \- net.bytebuddy:byte-buddy:jar:1.17.6:test
              org.awaitility:awaitility:jar:4.2.2:test
[INFO]
              org.hamcrest:hamcrest:jar:3.0:test
[INFO]
              org.junit.jupiter:junit-jupiter:jar:5.12.2:test
[INFO]
[INFO]
              +- org.junit.jupiter:junit-jupiter-api:jar:5.12.2:test
[INFO]
                 +- org.opentest4j:opentest4j:jar:1.3.0:test
                 +- org.junit.platform:junit-platform-commons:jar:1.12.2:test
\- org.apiguardian:apiguardian-api:jar:1.1.2:test
[INFO]
[INFO]
              +- org.junit.jupiter:junit-jupiter-params:jar:5.12.2:test
\- org.junit.jupiter:junit-jupiter-engine:jar:5.12.2:test
[INFO]
[INFO]
[INFO]
                 \- org.junit.platform:junit-platform-engine:jar:1.12.2:test
[INFO]
              org.mockito:mockito-core:jar:5.17.0:test
[INFO]
                net.bytebuddy:byte-buddy-agent:jar:1.17.6:test
              \- org.objenesis:objenesis:jar:3.3:test
[INFO]
[INFO]
             org.mockito:mockito-junit-jupiter:jar:5.17.0:test
[INFO]
              org.skyscreamer:jsonassert:jar:1.5.3:test
              \- com.vaadin.external.google:android-json:jar:0.0.20131108.vaadin1:test
org.springframework:spring-core:jar:6.2.8:compile
\- org.springframework:spring-jcl:jar:6.2.8:compile
[INFO]
[INFO]
[INFO]
              org.springframework:spring-test:jar:6.2.8:test
[INFO]
[INFO]
              org.xmlunit:xmlunit-core:jar:2.10.2:test
[INFO]
[INFO] BUILD SUCCESS
```

#### XML Configuration:

```
<java.version>21</java.version>
```

```
</properties>
<dependencies>
   <dependency>
       <groupId>org.springframework.boot
      <artifactId>spring-boot-starter-web</artifactId>
   </dependency>
   <dependency>
       <groupId>org.springframework.boot</groupId>
       <artifactId>spring-boot-devtools</artifactId>
       <scope>runtime</scope>
       <optional>true</optional>
   </dependency>
   <dependency>
       <groupId>org.springframework.boot
       <artifactId>spring-boot-starter-test</artifactId>
       <scope>test</scope>
   </dependency>
</dependencies>
```

# Exercise-2: Spring Core – Load SimpleDateFormat from Spring Configuration XML

### Code:

```
package com.cognizant.spring_learn;

// Import all the required packages

@SpringBootApplication
public class SpringLearnApplication {
```

```
public static void main(String[] args) {
       SpringApplication.run(SpringLearnApplication.class, args);
       displayDate();
    }
    private static void displayDate(){
       ApplicationContext context = new
ClassPathXmlApplicationContext("date-format.xml");
       SimpleDateFormat dateFormat = context.getBean("dateFormat",
SimpleDateFormat.class);
       try{
          Date date = dateFormat.parse("31/12/2018");
          System.out.println(date);
          System.out.println("Parsed Date: " + date);
        }
       catch (Exception e){
          System.out.println("Failed to format date due to " + e);
        }
    }
}
```

# **Output:**