

Project Initialisation

The screenshot shows the Spring Initializr web application interface for creating a new project. The interface is divided into several sections:

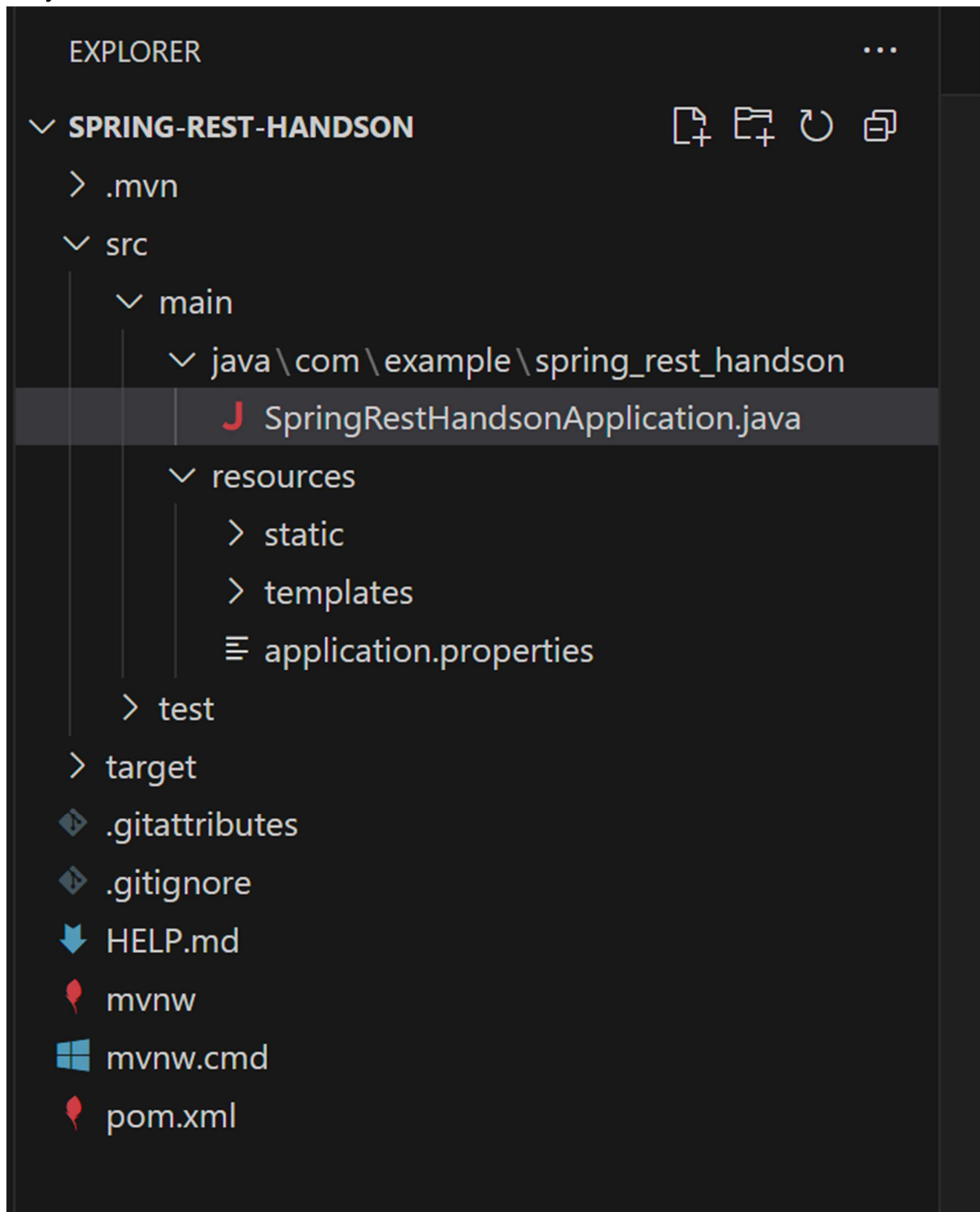
- Project:** Includes radio buttons for **Gradle - Groovy**, **Gradle - Kotlin**, and **Maven** (selected).
- Language:** Includes radio buttons for **Java** (selected), **Kotlin**, and **Groovy**.
- Spring Boot:** Includes radio buttons for **4.0.0 (SNAPSHOT)**, **3.5.4 (SNAPSHOT)**, **3.5.3** (selected), and **3.4.8 (SNAPSHOT)**, **3.4.7**.
- Project Metadata:** Includes text input fields for **Group** (com.example), **Artifact** (spring-rest-handson), **Name** (spring-rest-handson), **Description** (Demo project for Spring Boot), and **Package name** (com.example.spring-rest-handson).
- Packaging:** Includes radio buttons for **Jar** (selected) and **War**.
- Java:** Includes radio buttons for **24**, **21**, and **17** (selected).
- Dependencies:** Includes a button **ADD DEPENDENCIES... CTRL + B** and a section for **Spring Web** (WEB) with a description: "Build web, including RESTful, applications using Spring MVC. Uses Apache Tomcat as the default embedded container."

At the bottom of the Spring Initializr interface, there are three buttons: **GENERATE CTRL + G**, **EXPLORE CTRL + SPACE**, and **...**.

Below the Spring Initializr interface, a code editor shows the generated code for the **SpringRestHandsonApplication** class:

```
src > main > java > com > example > spring_rest_handson > SpringRestHandsonApplication.java > SpringRestHandsonApplication
1 package com.example.spring_rest_handson;
2
3 import org.springframework.boot.SpringApplication;
4 import org.springframework.boot.autoconfigure.SpringBootApplication;
5
6 @SpringBootApplication
7 public class SpringRestHandsonApplication {
8
9     Run | Debug
10     public static void main(String[] args) {
11         SpringApplication.run(SpringRestHandsonApplication.class, args);
12     }
13 }
14 }
```

Project Structure



pom.xml

```
1 <?xml version="1.0" encoding="UTF-8"?>
2 <project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
3     xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd">
4     <modelVersion>4.0.0</modelVersion>
5     <parent>
6         <groupId>org.springframework.boot</groupId>
7         <artifactId>spring-boot-starter-parent</artifactId>
8         <version>3.5.3</version>
9         <relativePath/> <!-- lookup parent from repository -->
10    </parent>
11    <groupId>com.example</groupId>
12    <artifactId>spring-rest-handson</artifactId>
13    <version>0.0.1-SNAPSHOT</version>
14    <name>spring-rest-handson</name>
15    <description>Demo project for Spring Boot</description>
16    <url/>
17    <licenses>
18        <license/>
19    </licenses>
20    <developers>
21        <developer/>
22    </developers>
23    <scm>
24        <connection/>
25        <developerConnection/>
26        <tag/>
27        <url/>
28    </scm>
29    <properties>
30        <java.version>17</java.version>
31    </properties>
32    <dependencies>
33        <dependency>
34            <groupId>org.springframework.boot</groupId>
35            <artifactId>spring-boot-starter-web</artifactId>
36        </dependency>
37
38        <dependency>
39            <groupId>org.springframework.boot</groupId>
40            <artifactId>spring-boot-starter-test</artifactId>
41            <scope>test</scope>
42        </dependency>
43    </dependencies>
44
45    <build>
46        <plugins>
47            <plugin>
48                <groupId>org.springframework.boot</groupId>
49                <artifactId>spring-boot-maven-plugin</artifactId>
50            </plugin>
51        </plugins>
52    </build>
53
54 </project>
55
```

Output

```
[INFO] --- compiler:3.14.0:testCompile (default-testCompile) @ spring-rest-handson ---
[INFO] Nothing to compile - all classes are up to date.
[INFO]
[INFO] <<< spring-boot:3.5.3:run (default-cli) < test-compile @ spring-rest-handson <<<
[INFO]
[INFO] --- spring-boot:3.5.3:run (default-cli) @ spring-rest-handson ---
[INFO] Attaching agents: []
Picked up JAVA_TOOL_OPTIONS: -Dstdout.encoding=UTF-8 -Dstderr.encoding=UTF-8

sonApplication      : No active profile set, falling back to 1 default profile: "default"
2025-07-13T09:57:15.518+05:30 INFO 16908 --- [spring-rest-handson] [      main] o.s.b.w.embedded.tomcat.TomcatWebSe
rver  : Tomcat initialized with port 8081 (http)
2025-07-13T09:57:15.550+05:30 INFO 16908 --- [spring-rest-handson] [      main] o.apache.catalina.core.StandardServ
ice   : Starting service [Tomcat]
2025-07-13T09:57:15.551+05:30 INFO 16908 --- [spring-rest-handson] [      main] o.apache.catalina.core.StandardEngi
ne    : Starting Servlet engine: [Apache Tomcat/10.1.42]
2025-07-13T09:57:15.646+05:30 INFO 16908 --- [spring-rest-handson] [      main] o.a.c.c.C.[Tomcat].[localhost].[/]
       : Initializing Spring embedded WebApplicationContext
2025-07-13T09:57:15.648+05:30 INFO 16908 --- [spring-rest-handson] [      main] w.s.c.ServletWebServerApplicationCo
ntext : Root WebApplicationContext: initialization completed in 1398 ms
2025-07-13T09:57:16.158+05:30 INFO 16908 --- [spring-rest-handson] [      main] o.s.b.w.embedded.tomcat.TomcatWebSe
rver  : Tomcat started on port 8081 (http) with context path '/'
2025-07-13T09:57:16.166+05:30 INFO 16908 --- [spring-rest-handson] [      main] c.e.s.SpringRestHandsonApplication
       : Started SpringRestHandsonApplication in 2.707 seconds (process running for 3.191)
```