

Proyecto Maven

He empleado el segundo proyecto, que presenta tests unitarios, para que haya muchos menos errores.

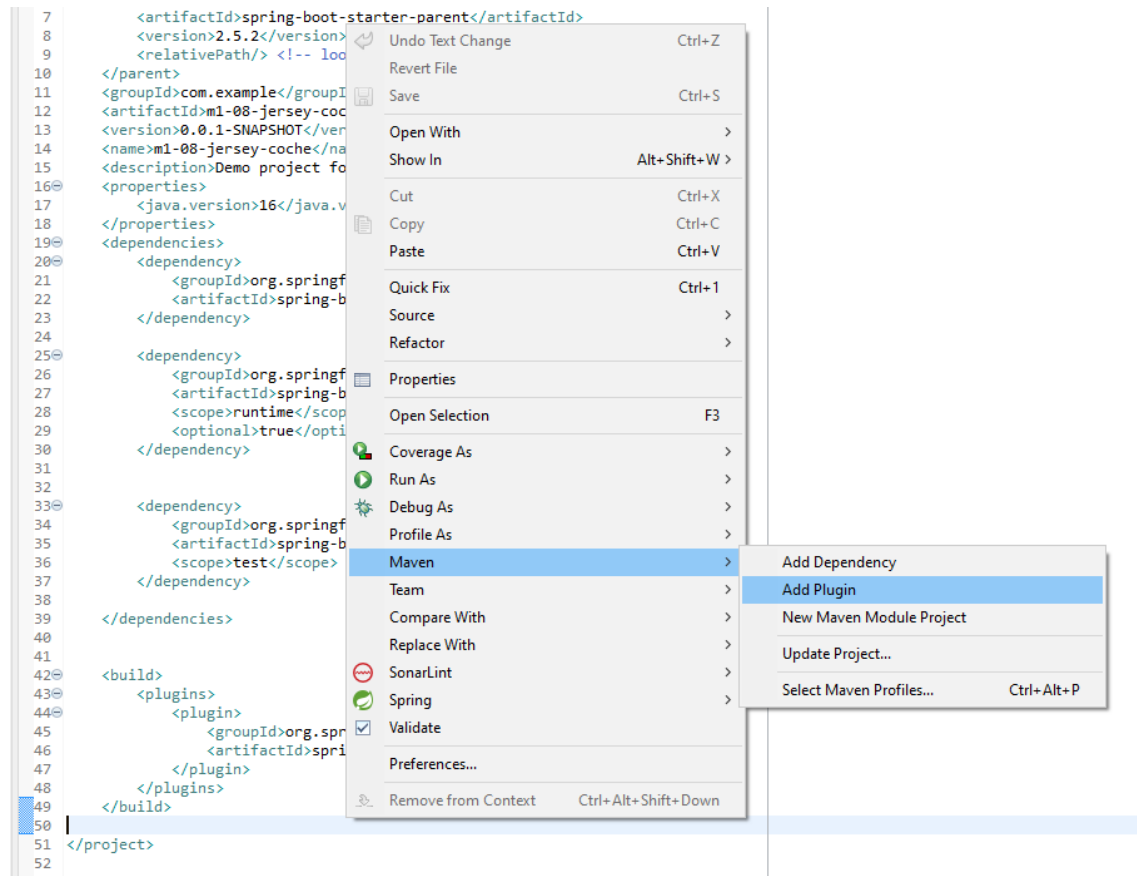
El archivo pom.xml inicial es éste:


```
m1-08-jersey-coche-test/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 https://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>2.5.2</version>
9     <relativePath/> <!-- lookup parent from repository -->
10  </parent>
11  <groupId>com.example</groupId>
12  <artifactId>m1-08-jersey-coche</artifactId>
13  <version>0.0.1-SNAPSHOT</version>
14  <name>m1-08-jersey-coche</name>
15  <description>Demo project for Spring Boot</description>
16  <properties>
17    <java.version>16</java.version>
18  </properties>
19  <dependencies>
20    <dependency>
21      <groupId>org.springframework.boot</groupId>
22      <artifactId>spring-boot-starter-jersey</artifactId>
23    </dependency>
24
25    <dependency>
26      <groupId>org.springframework.boot</groupId>
27      <artifactId>spring-boot-devtools</artifactId>
28      <scope>runtime</scope>
29      <optional>true</optional>
30    </dependency>
31
32
33    <dependency>
34      <groupId>org.springframework.boot</groupId>
35      <artifactId>spring-boot-starter-test</artifactId>
36      <scope>test</scope>
37    </dependency>
38  </dependencies>
39
40
41
42  <build>
43    <plugins>
44      <plugin>
45        <groupId>org.springframework.boot</groupId>
46        <artifactId>spring-boot-maven-plugin</artifactId>
47      </plugin>
48    </plugins>
49  </build>
50
51 </project>
52
```

Y ahora se le añaden las configuraciones de plugins necesarias, vistas en clase de <https://maven.apache.org/plugins/>

Para ello, en el pom.xml, clicamos el botón derecho del ratón/Maven/add plugin

Y se añaden para build: javadoc, surefire, site, clean, compiler, jacoco y codehaus.



 Add Plugin—□×


Group Id: *


Artifact Id: *


Version:


Enter groupId, artifactId or sha1 prefix or pattern (*):


Search Results:


▼  org.apache.maven.plugins maven-javadoc-plugin (managed)


 3.3.0 [maven-plugin]


 3.2.0 [maven-plugin] (managed)


 3.1.1 [maven-plugin]

 3.1.0 [maven-plugin]

 3.0.1 [maven-plugin]

 3.0.0 [maven-plugin]

 3.0.0-M1 [maven-plugin]

 Add Plugin—□×


Group Id: *


Artifact Id: *


Version:


Enter groupId, artifactId or sha1 prefix or pattern (*):


Search Results:


▼  org.apache.maven.plugins maven-surefire-plugin (managed)


 3.0.0-M5 [maven-plugin]


 3.0.0-M4 [maven-plugin]


 3.0.0-M3 [maven-plugin]

 3.0.0-M2 [maven-plugin]

 3.0.0-M1 [maven-plugin]

 2.22.2 [maven-plugin] (managed)

 2.22.1 [maven-plugin]

 Add Plugin

Group Id: *


Artifact Id: *


Version:

Enter groupId, artifactId or sha1 prefix or pattern (*):

Search Results:

- org.apache.maven.plugins maven-site-plugin
 - 3.9.1 [maven-plugin]
 - 3.9.0 [maven-plugin]
 - 3.8.2 [maven-plugin]
 - 3.7.1 [maven-plugin]
 - 3.7 [maven-plugin]
 - 3.6 [maven-plugin]
 - 3.5.1 [maven-plugin]



 Add Plugin

Group Id: *


Artifact Id: *


Version:

Enter groupId, artifactId or sha1 prefix or pattern (*):

Search Results:

- org.apache.maven.plugins maven-clean-plugin (managed)
 - 3.1.0 [maven-plugin] (managed)
 - 3.0.0 [maven-plugin]
 - 2.6.1 [maven-plugin]
 - 2.6 [maven-plugin]
 - 2.5 [maven-plugin]
 - 2.4.1 [maven-plugin]
 - 2.4 [maven-plugin]



 Add Plugin — □ ×








Group Id: *

Artifact Id: *


Version:

Enter groupId, artifactId or sha1 prefix or pattern (*):

Search Results:

- ▼  org.apache.maven.plugins maven-compiler-plugin (managed)
 -  3.8.1 [maven-plugin] (managed)
 -  3.8.0 [maven-plugin]
 -  3.7.0 [maven-plugin]
 -  3.6.2 [maven-plugin]
 -  3.6.1 [maven-plugin]
 -  3.6.0 [maven-plugin]

? OK Cancel

 Add Plugin — □ ×








Group Id: *

Artifact Id: *

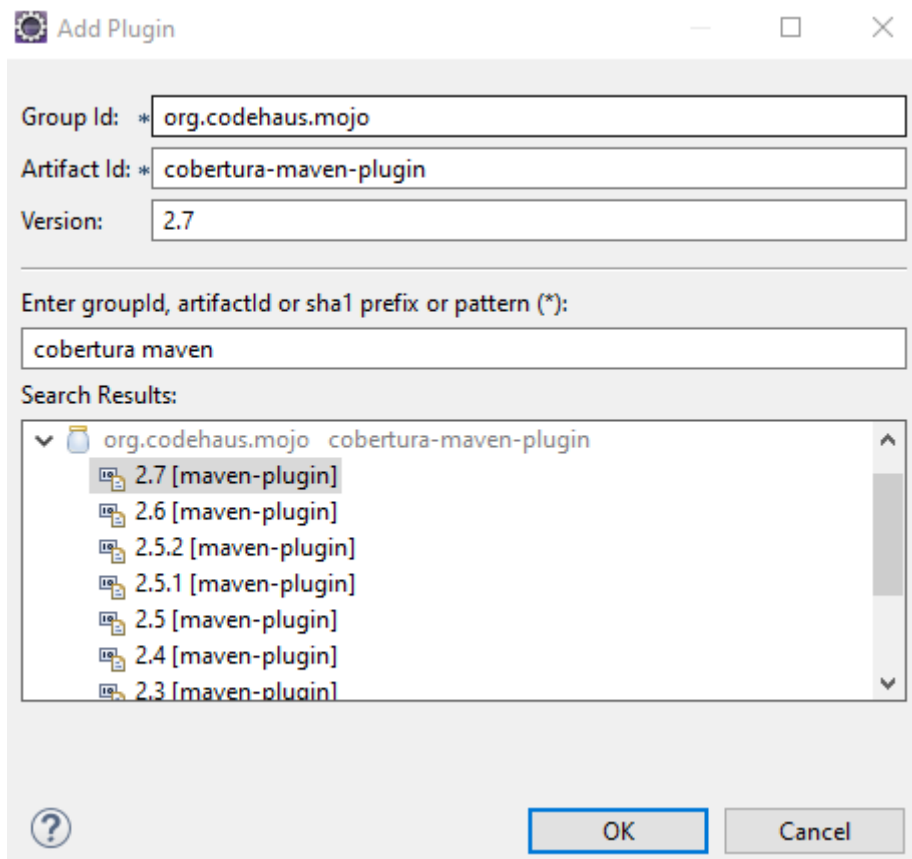
Version:

Enter groupId, artifactId or sha1 prefix or pattern (*):

Search Results:

- >  de.dentrassi.maven jacoco-extras
- >  io.github.handofgod94 jacoco-cov-badge-maven-plugin
- >  io.github.yangziwen diff-jacoco-maven-plugin
- >  org.helmetsrequired jacocotogo-maven-plugin
- >  org.jacoco jacoco-maven-plugin
- >  org.jboss.errai jacoco-gwt-maven-plugin
- >  org.no-hope jacoco-aggregator-maven-plugin

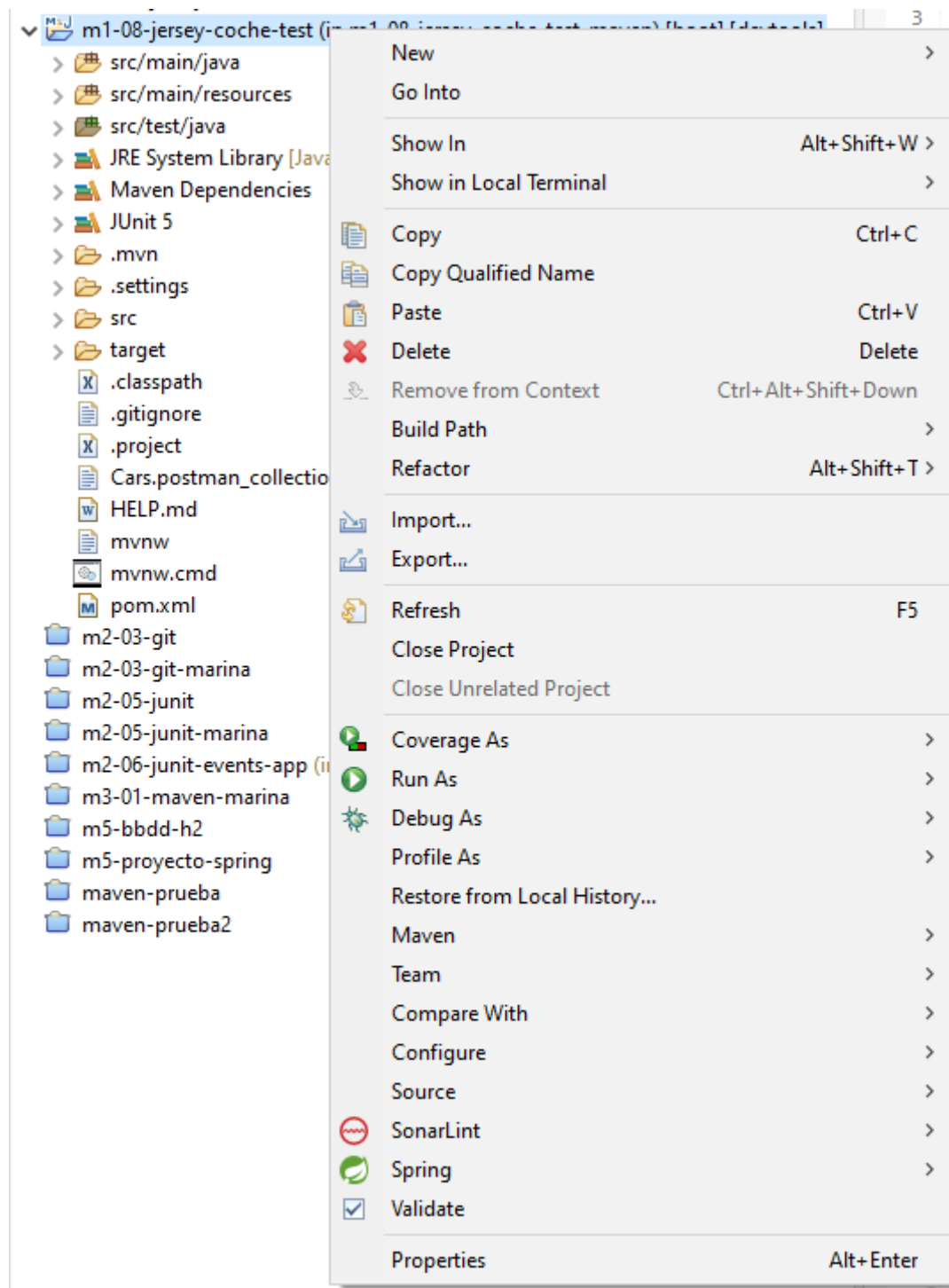
? OK Cancel

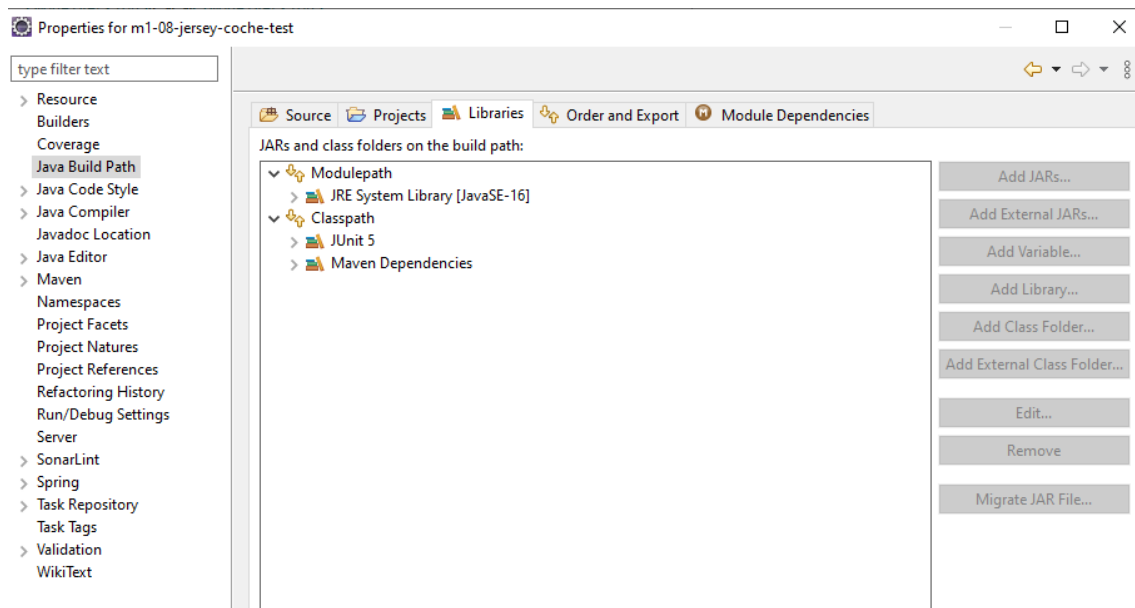


Para reporting, se agrega javadoc.

```
<reporting>
<plugins>
  <plugin>
    <groupId>org.apache.maven.plugins</groupId>
    <artifactId>maven-javadoc-plugin</artifactId>
    <version>3.3.0</version>
    <configuration>
      <show>private</show>
    </configuration>
  </plugin>
</plugins>
</reporting>
```

Se comprueba la versión de java, dándole al botón derecho del ratón sobre el proyecto/properties/java build path. Así, se asegura que esté en la versión 16.



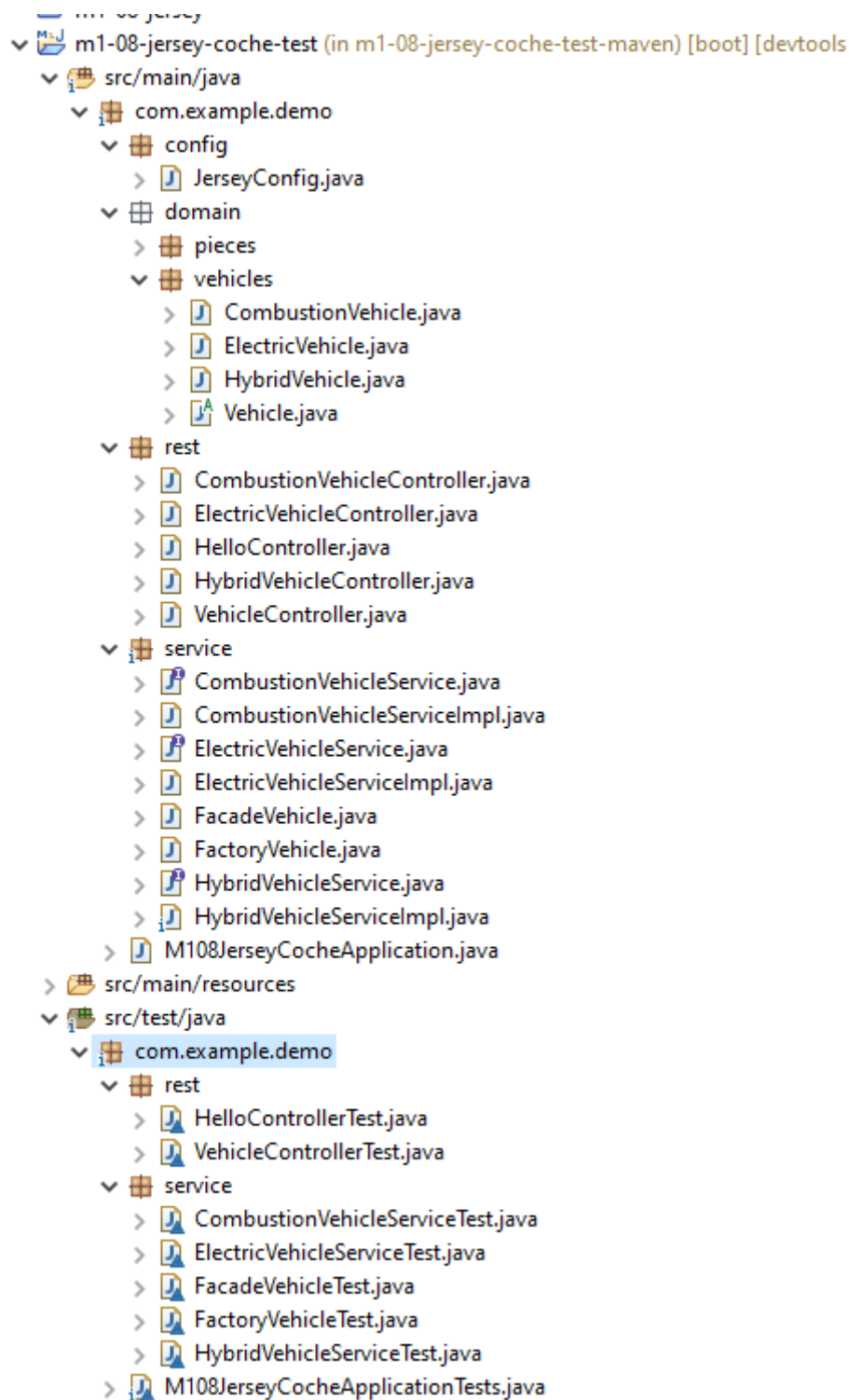


Se abre una terminal en la carpeta del proyecto, y se instala clean escribiendo `mvn clean install`.

Ha detectado un error

```
[ERROR] Tests run: 1, Failures: 0, Errors: 1, Skipped: 0, Time elapsed: 0.505 s <<< FAILURE! - in tests.M108JerseyCocheApplicationTests
[ERROR] tests.M108JerseyCocheApplicationTests Time elapsed: 0.504 s <<< ERROR!
java.lang.IllegalStateException: Unable to find a @SpringBootTest(classes=...) wit
n your test
[INFO] Running tests.testsRest.HelloControllerTest
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.002 s - in tests.testsRest.HelloControllerTest
[INFO] Running tests.testsRest.VehicleControllerTest
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.101 s - in tests.testsRest.VehicleControllerTest
[INFO] Running tests.testsService.CombustionVehicleServiceTest
[INFO] Tests run: 10, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.007 s - in tests.testsService.CombustionVehicleServiceTest
[INFO] Running tests.testsService.ElectricVehicleServiceTest
[INFO] Tests run: 10, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.005 s - in tests.testsService.ElectricVehicleServiceTest
[INFO] Running tests.testsService.FacadeVehicleTest
[INFO] Tests run: 3, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.002 s - in tests.testsService.FacadeVehicleTest
[INFO] Running tests.testsService.FactoryVehicleTest
[INFO] Tests run: 4, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.003 s - in tests.testsService.FactoryVehicleTest
[INFO] Running tests.testsService.HybridVehicleServiceTest
[INFO] Tests run: 10, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.004 s - in tests.testsService.HybridVehicleServiceTest
[INFO] Results:
[INFO] Errors:
[ERROR] M108JerseyCocheApplicationTests » IllegalStateException Unable to find a @SpringBootCon...
```

El error era que es obligatorio que los paquetes de main y de tests se llamen igual, se ha cambiado haciendo clic derecho con el ratón/refactor/name, y se ha reorganizado los paquetes quedando así:



Vuelvo a ejecutar, mvn clean install, y ahora se ha podido hacer correctamente.

```

[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 15.448 s







```

Ahora, en la terminal se instala site, escribiendo mvn site install.

```
[INFO] Results:
[INFO] Tests run: 40, Failures: 0, Errors: 0, Skipped: 0
[INFO]
[INFO] --- jacoco-maven-plugin:0.8.7:report (report) @ m1-08-jersey-coche ---
[INFO] Loading execution data file D:\Bibliotecas\Marina\Documentos\copia seguridad\coche test\m1-08-jersey-coche-test-maven\target\jacoco.exec
[INFO] Analyzed bundle 'm1-08-jersey-coche' with 22 classes
[INFO]
[INFO] --- maven-jar-plugin:3.2.0:jar (default-jar) @ m1-08-jersey-coche ---
[INFO]
[INFO] --- spring-boot-maven-plugin:2.5.2:repackage (repackage) @ m1-08-jersey-coche ---
[INFO] Replacing main artifact with repackaged archive
[INFO]
[INFO] --- maven-install-plugin:2.5.2:install (default-install) @ m1-08-jersey-coche ---
[INFO] Installing D:\Bibliotecas\Marina\Documentos\copia seguridad\coche test\m1-08-jersey-coche-test-maven\target\m1-08-jersey-coche-0.0.1-SNAPSHOT.jar to C:\Users\Marina\.m2\repository\com\example\m1-08-jersey-coche\0.0.1-SNAPSHOT\m1-08-jersey-coche-0.0.1-SNAPSHOT.jar
[INFO] Installing D:\Bibliotecas\Marina\Documentos\copia seguridad\coche test\m1-08-jersey-coche-test-maven\pom.xml to C:\Users\Marina\.m2\repository\com\example\m1-08-jersey-coche\0.0.1-SNAPSHOT\m1-08-jersey-coche-0.0.1-SNAPSHOT.pom
[INFO]
[INFO] BUILD SUCCESS
[INFO]
[INFO] Total time: 04:39 min
```

No ha detectado ningún error.

La cobertura del proyecto es la siguiente:

Element	Coverage	Covered Instructio...	Missed Instructions	Total Instructions
✓  m1-08-jersey-coche-test	 64,4 %	1.804	997	2.801
>  src/main/java	 53,0 %	1.120	993	2.113
>  src/test/java	 99,4 %	684	4	688