A Java Microservices project using Spring Boot– Hands-on guide

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Detailed Steps:

This document contains the detailed steps with screenshots, to setup a Java Microservices project using Spring Boot:

Target Audience:

All, who has the knowledge of Java.

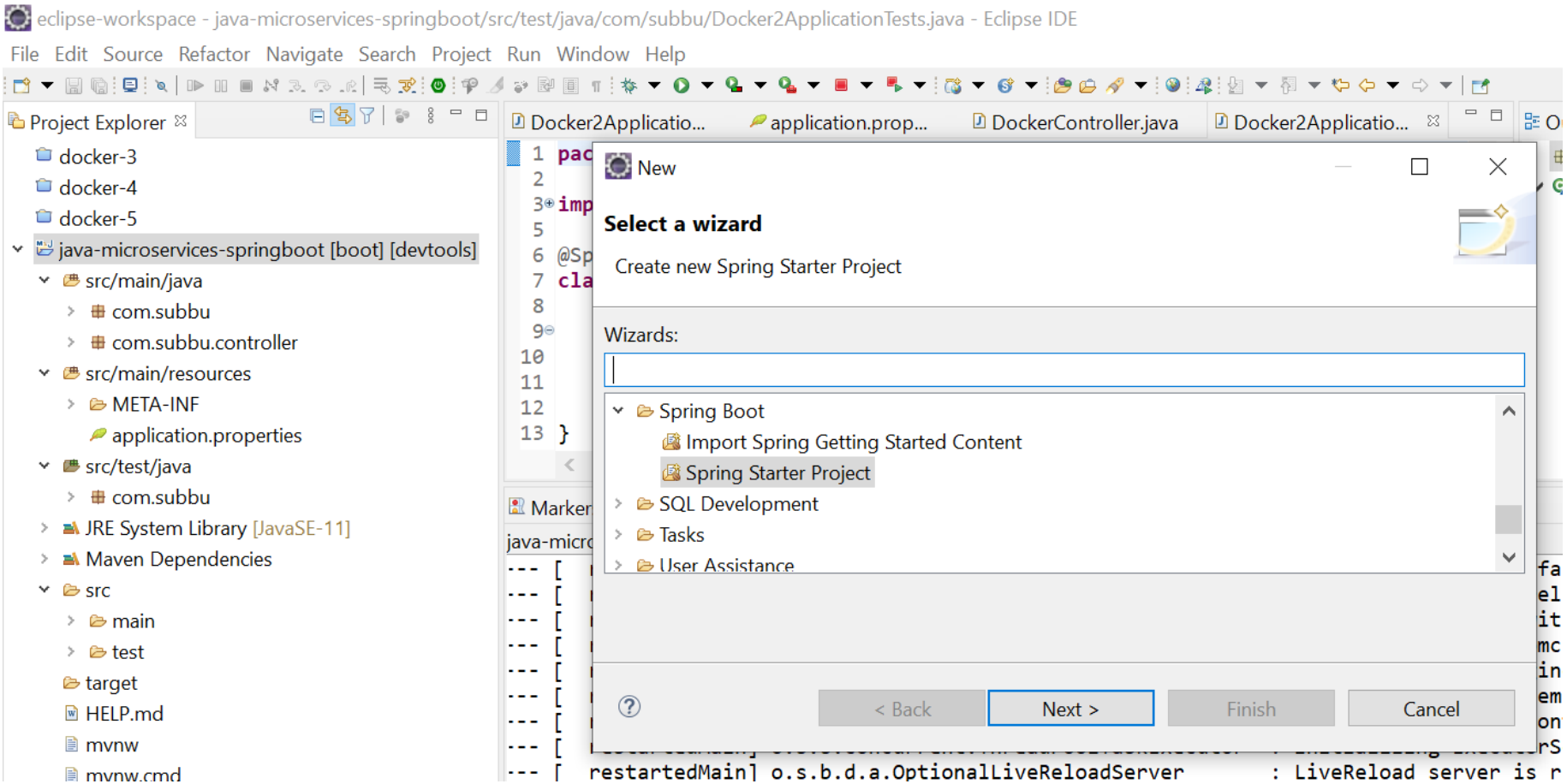
Artifacts needed:

1. JDK11
2. Eclipse – IDE
3. Internet

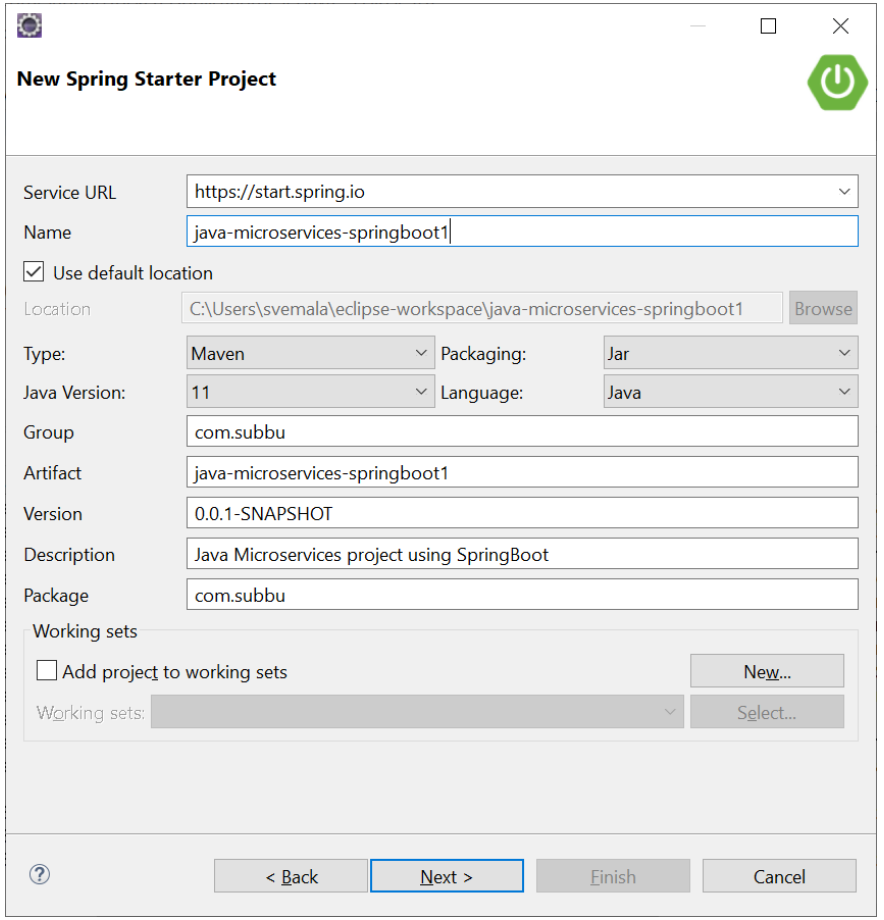
Implementation Steps:

1. Create a Spring Starter Project.
2. Add the necessary Classes and dependencies in the pom.xml
3. Run as Spring Boot App on the Eclipse.
4. Check for the output both on the Console and the Browser.

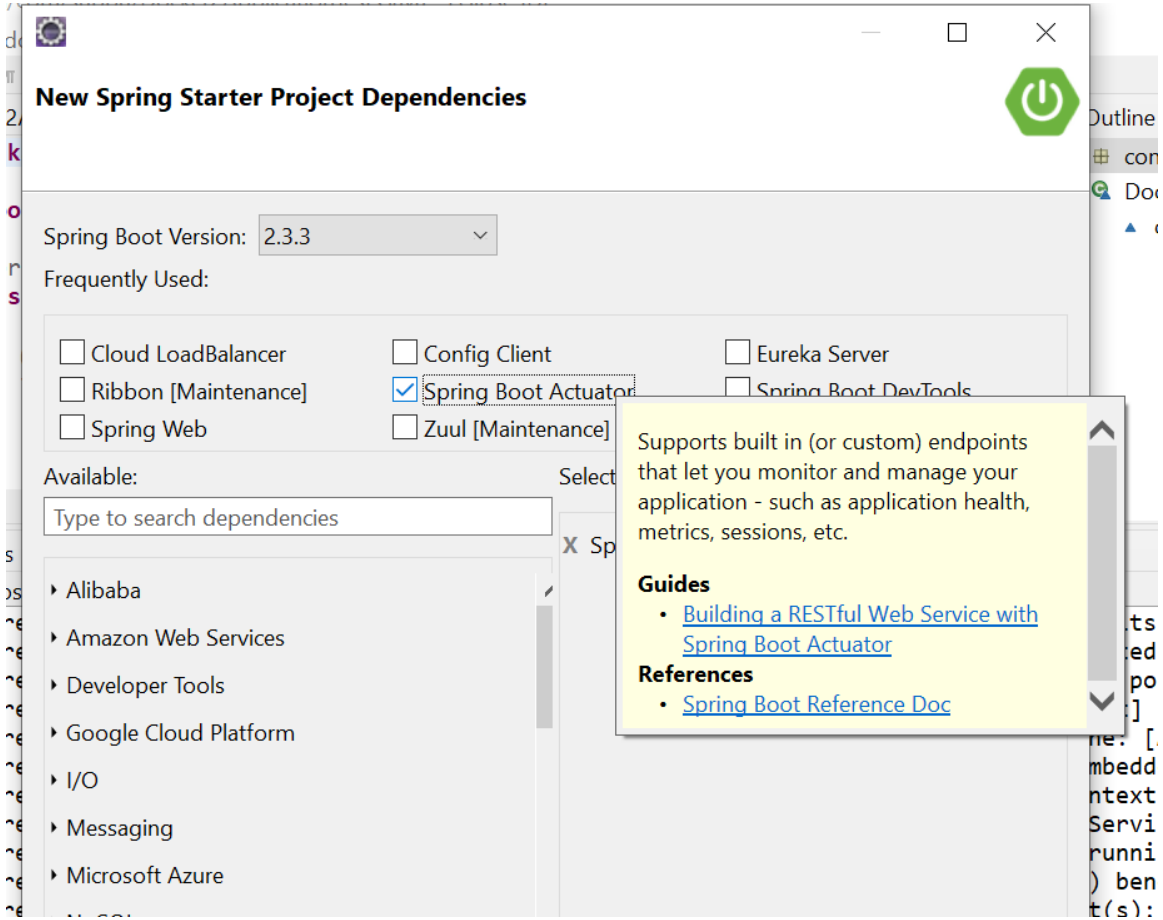
File – New – Spring Starter Project - Create



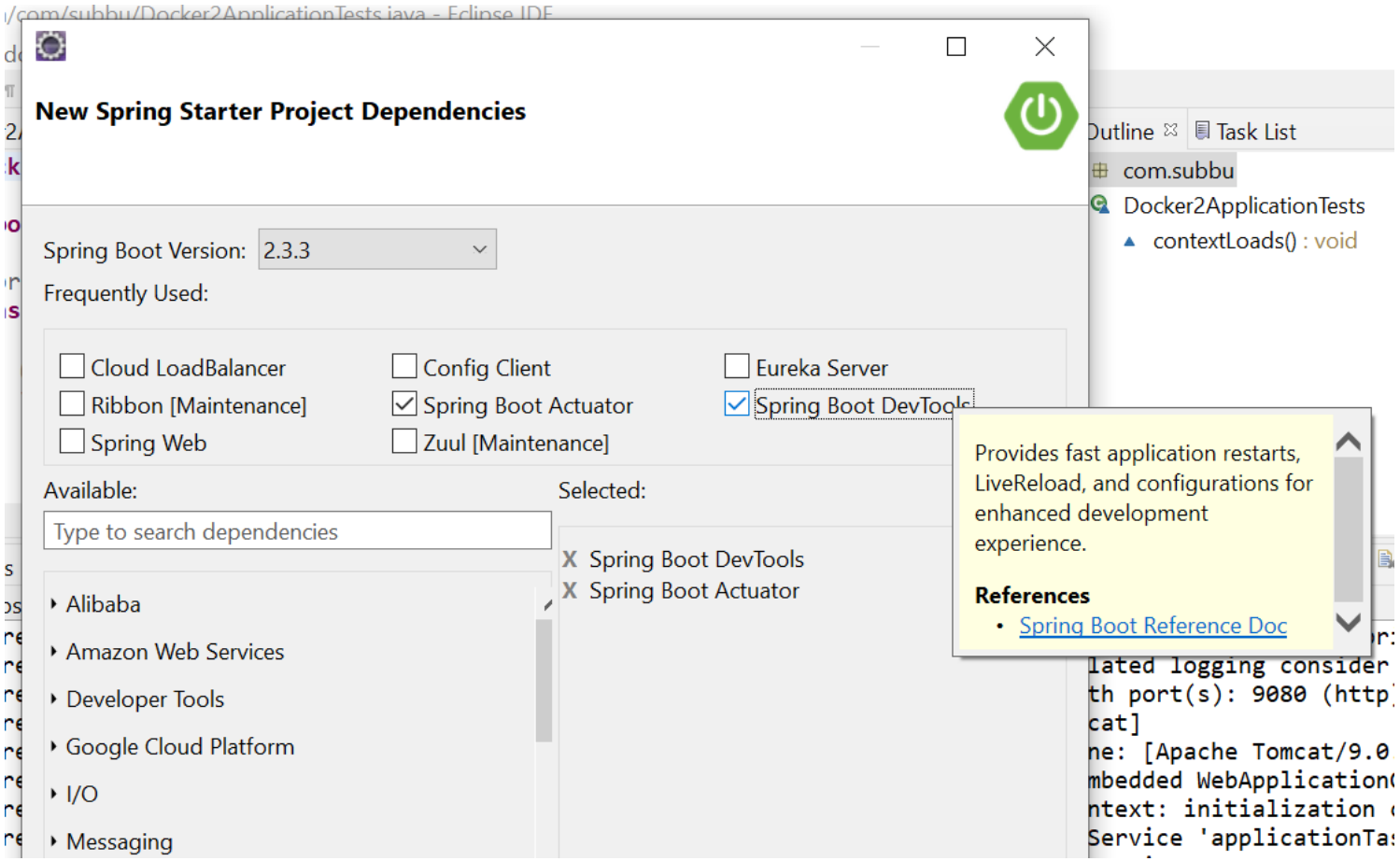
Provide the necessary details for the Spring starter project:



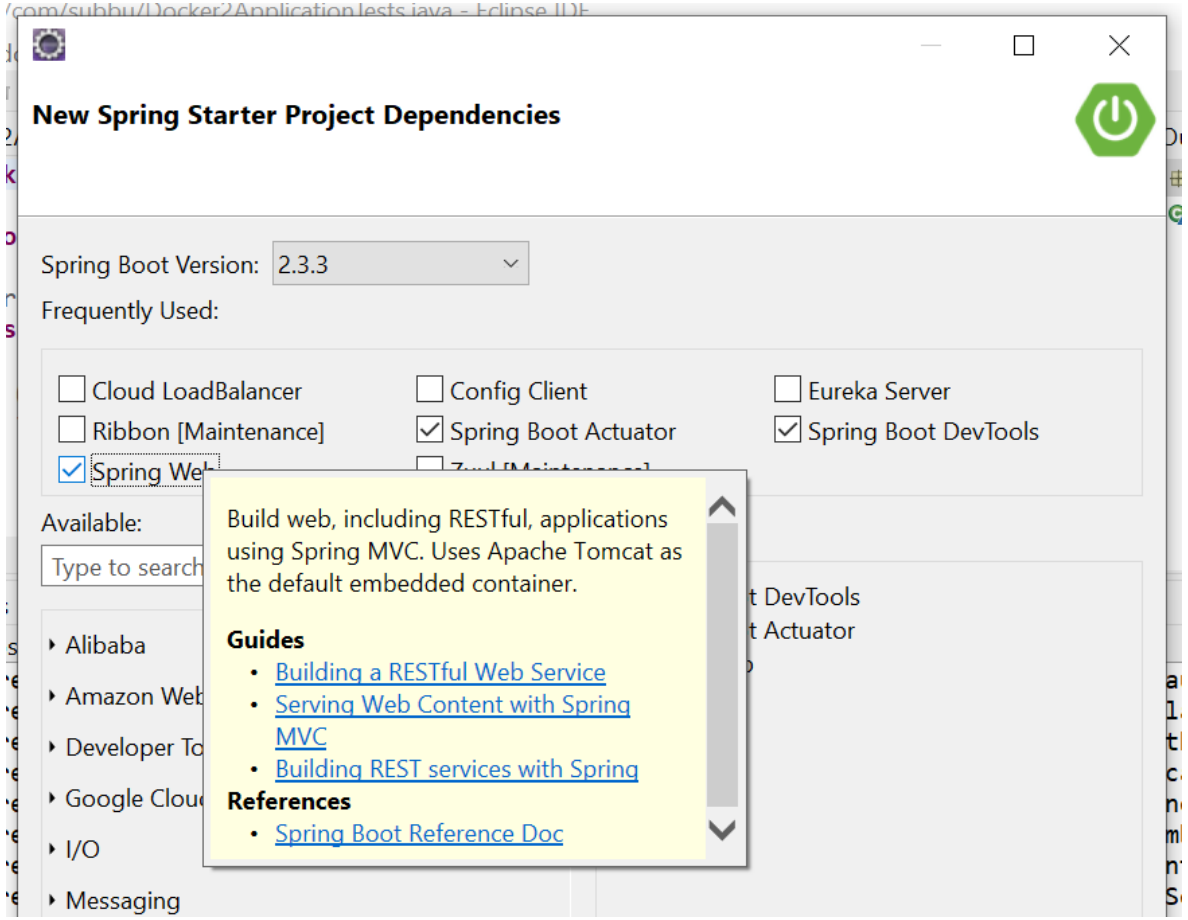
Choose the dependencies - Actuator:



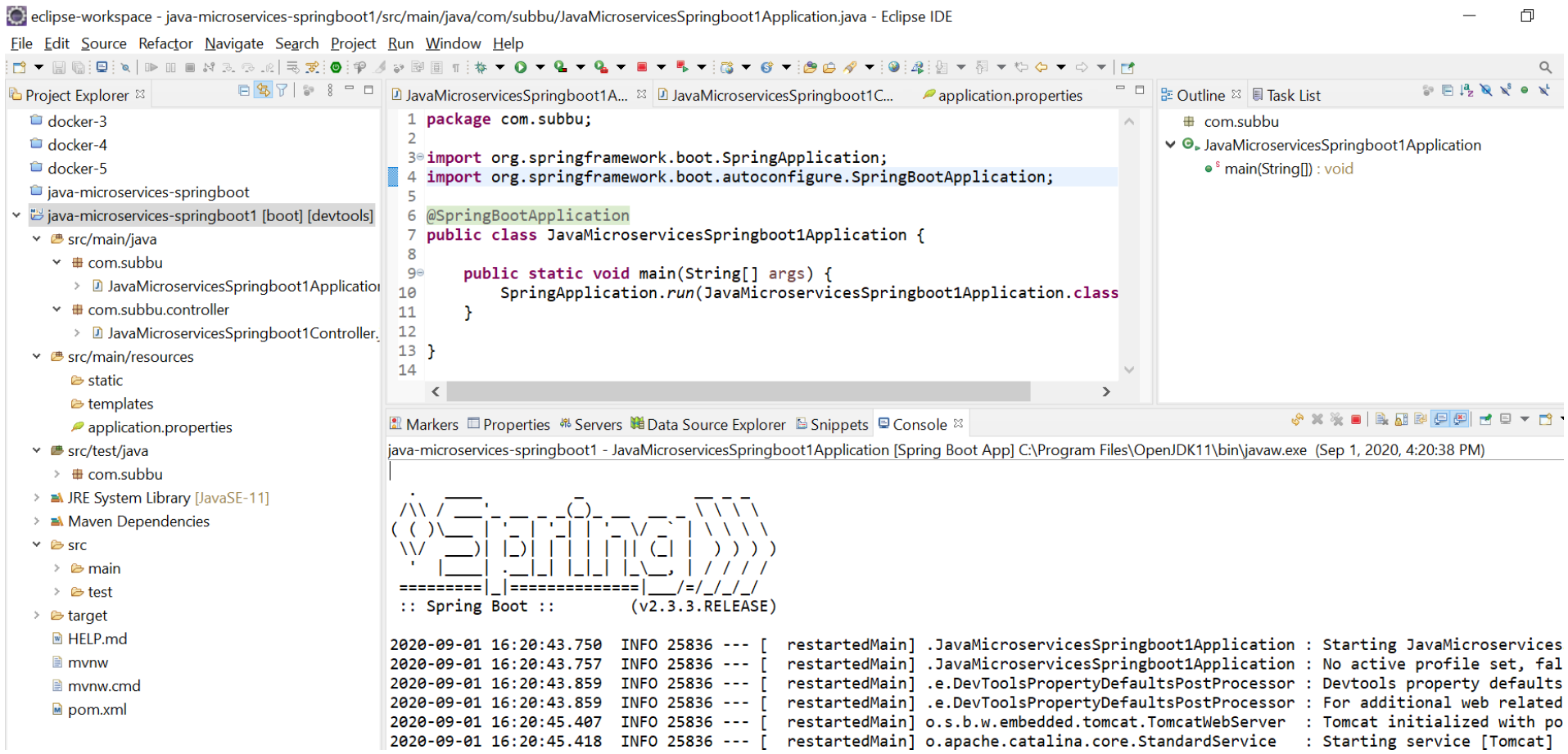
Choose the dependencies - DevTools:



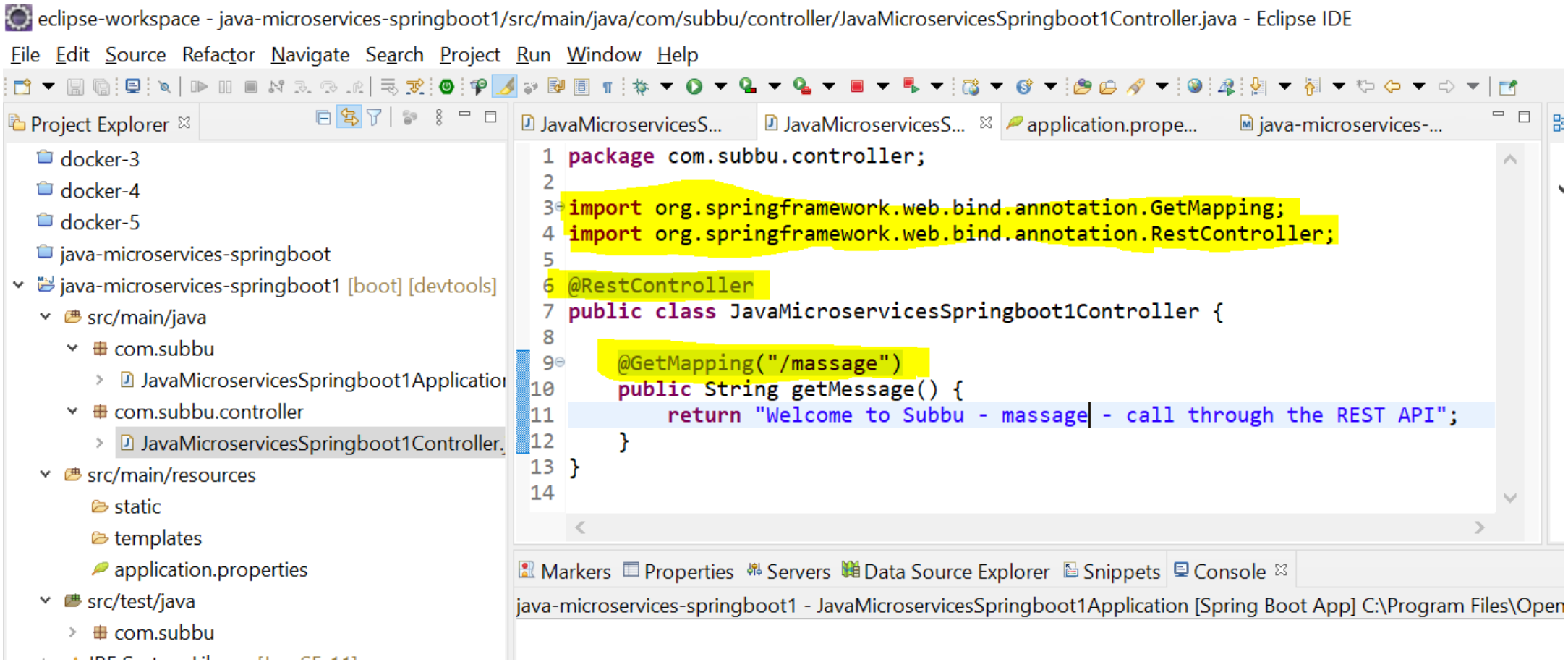
Choose the dependencies – Spring Web:



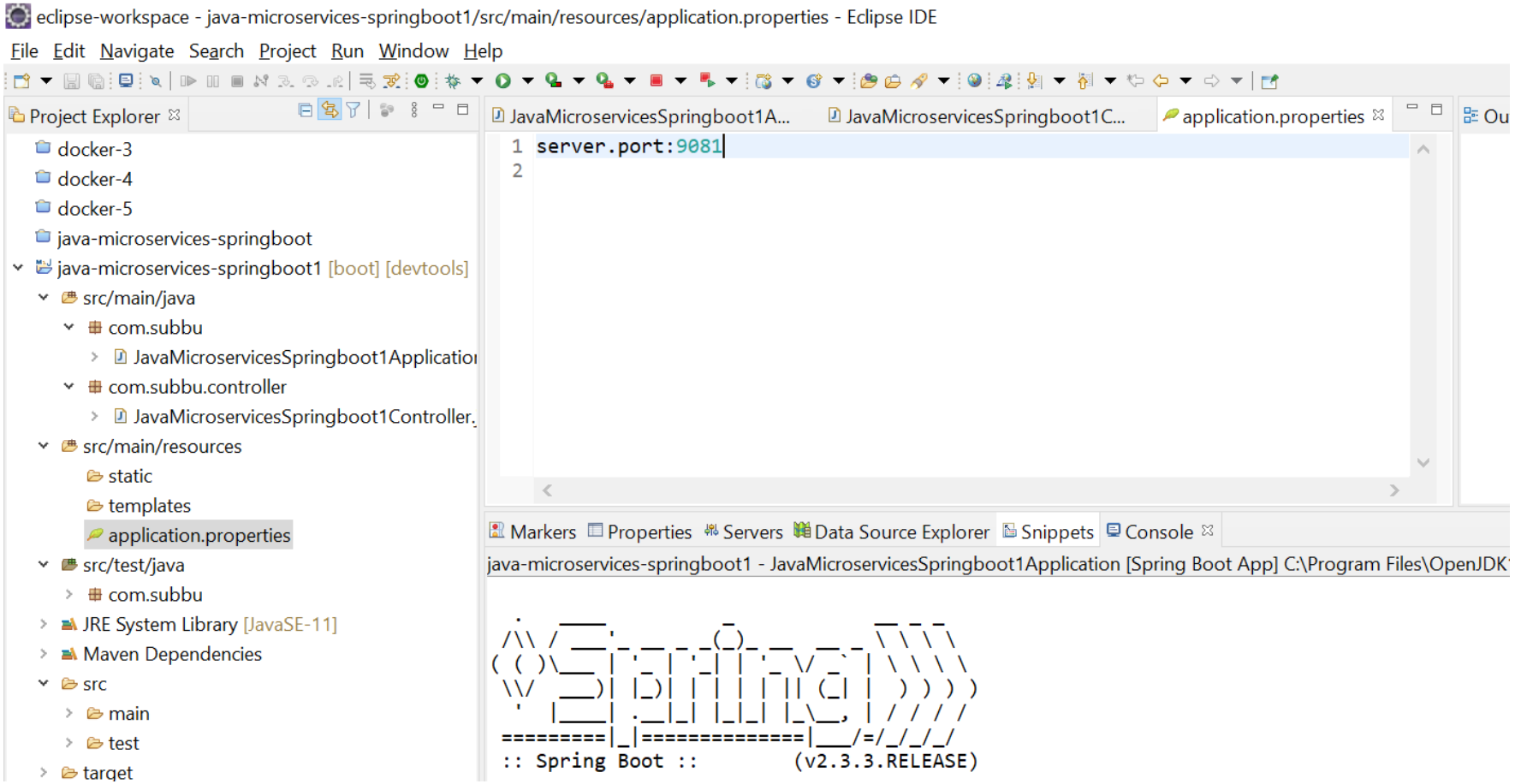
Project is created on the Eclipse:



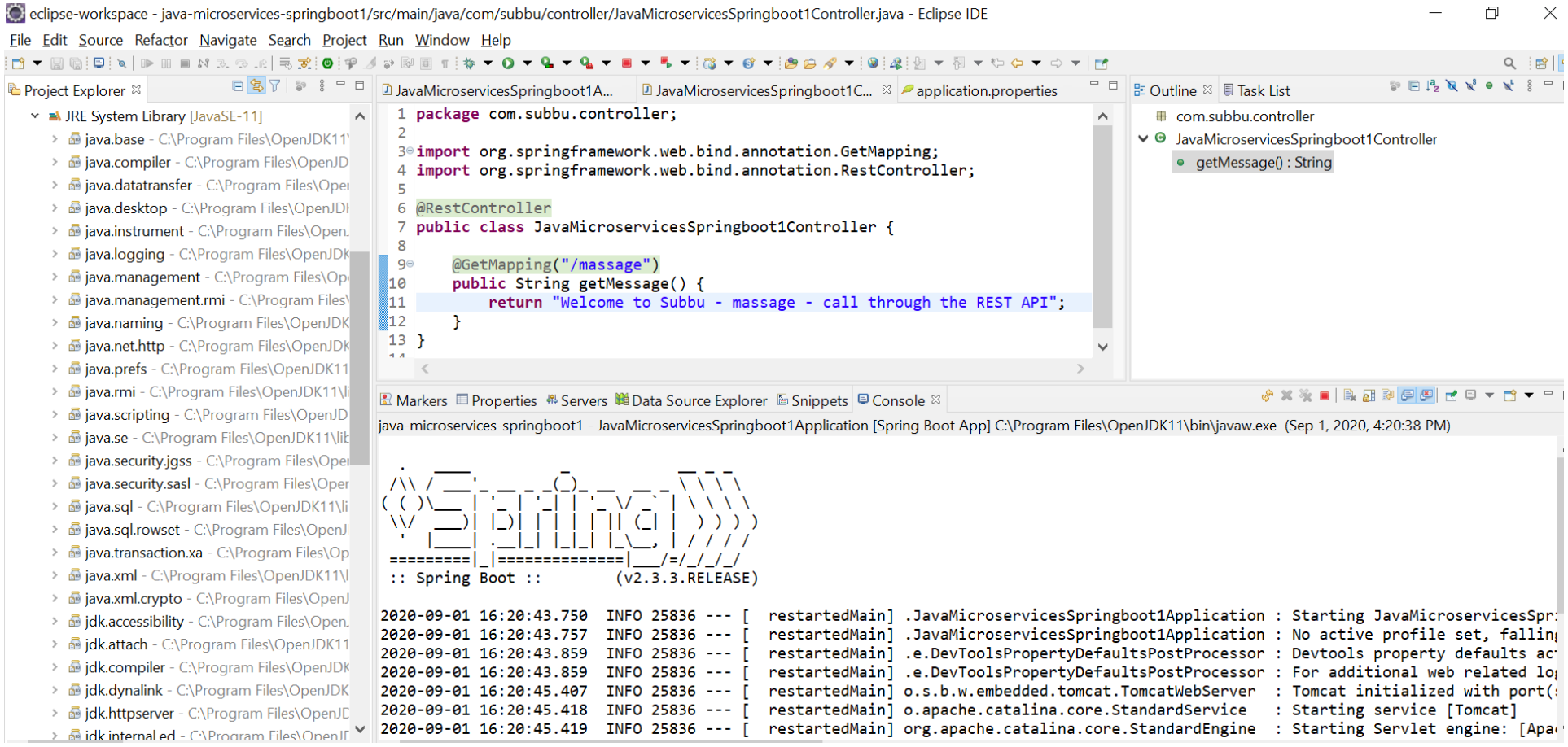
Create Controller with GetMapping and RestController:



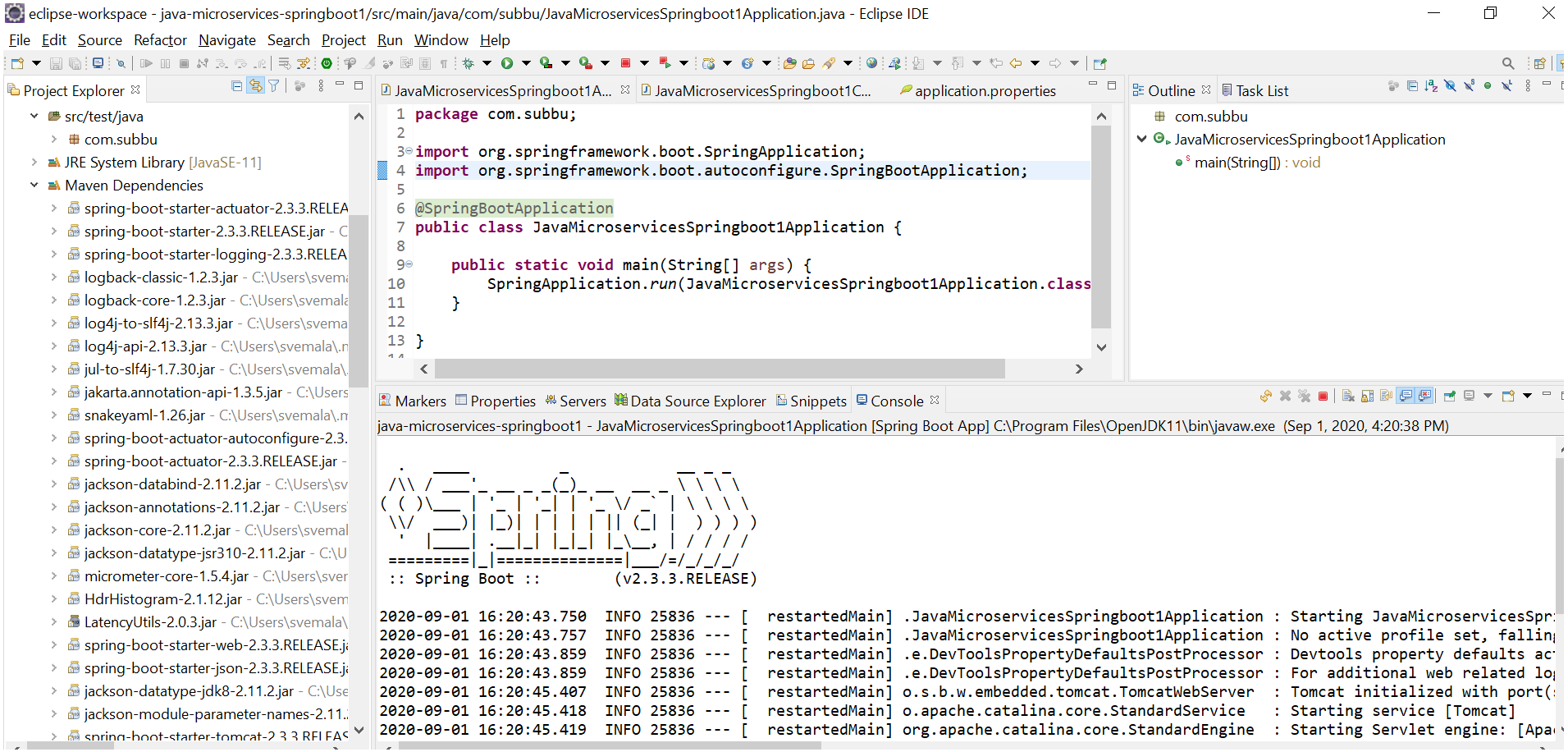
A Microservices project structure on Eclipse:



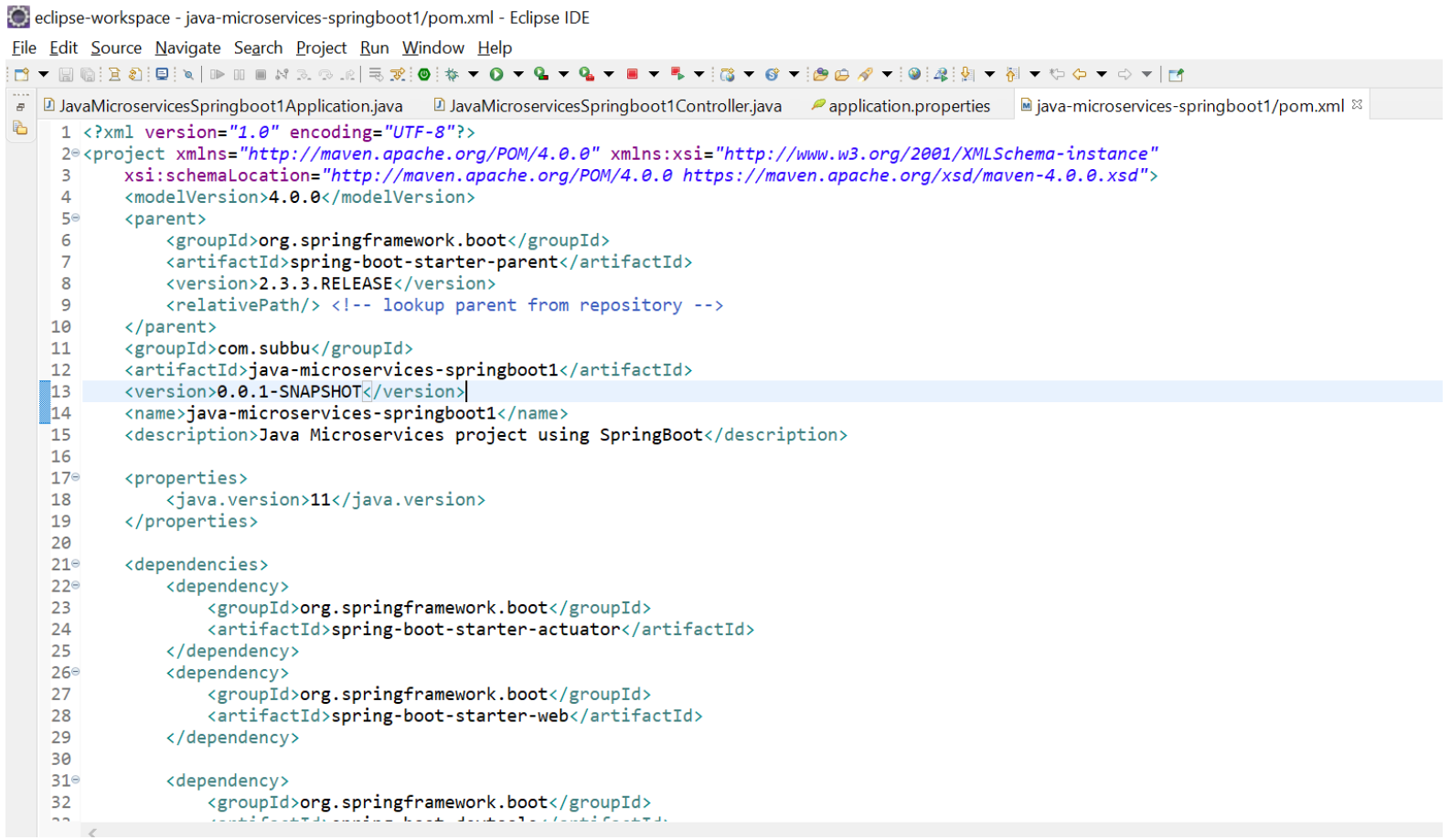
View of JRE System Library:



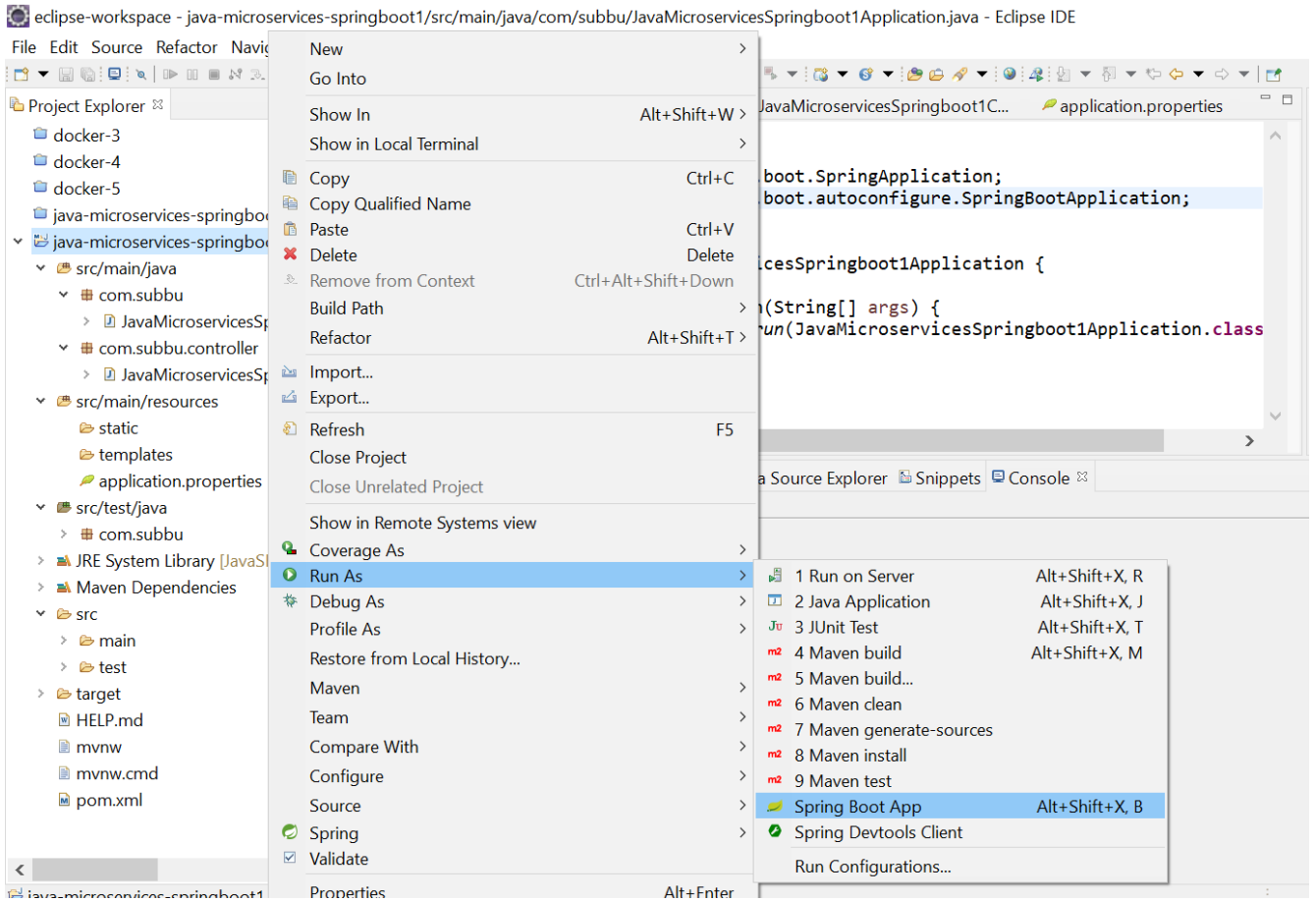
View of Maven Dependancies:



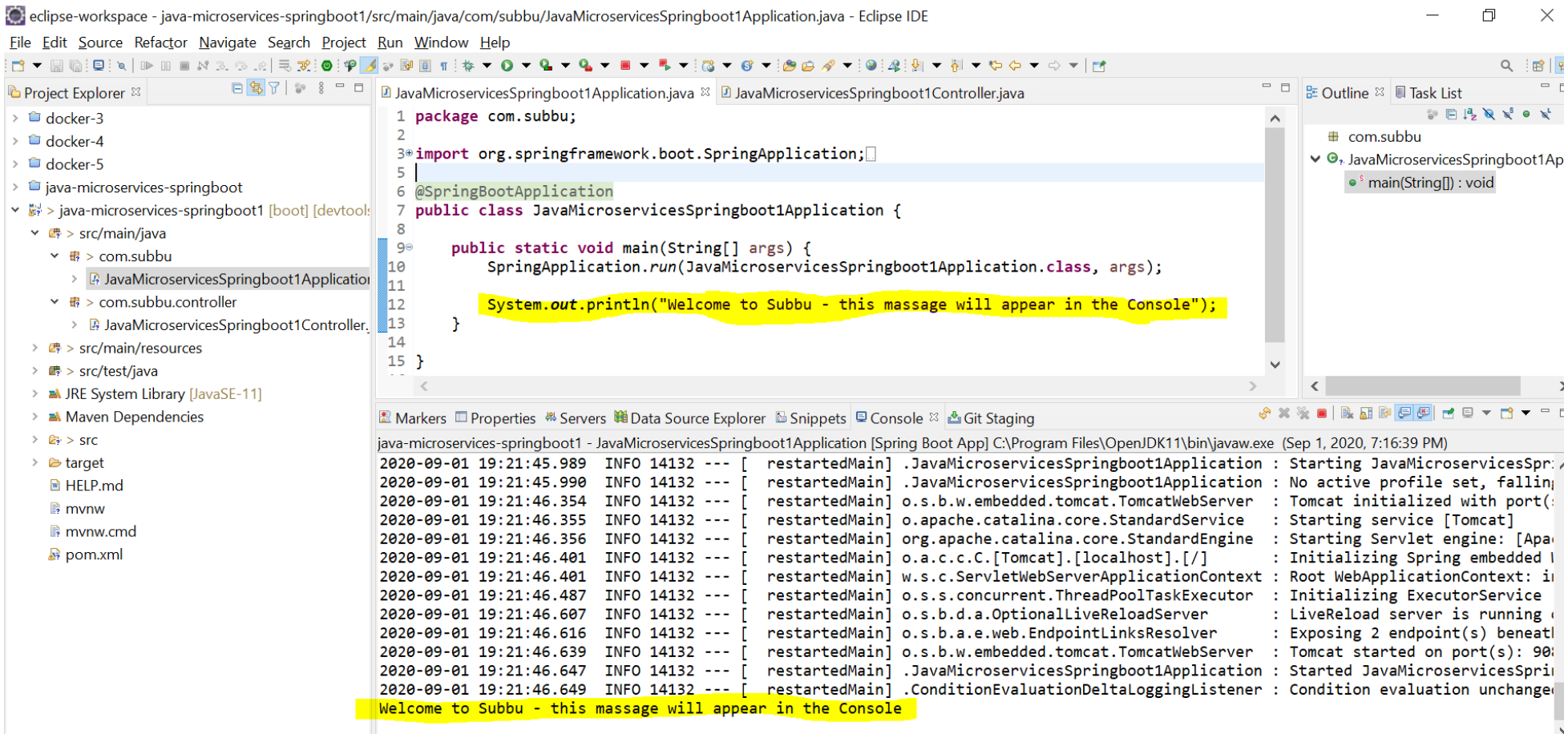
pom.xml – Deployment descriptor



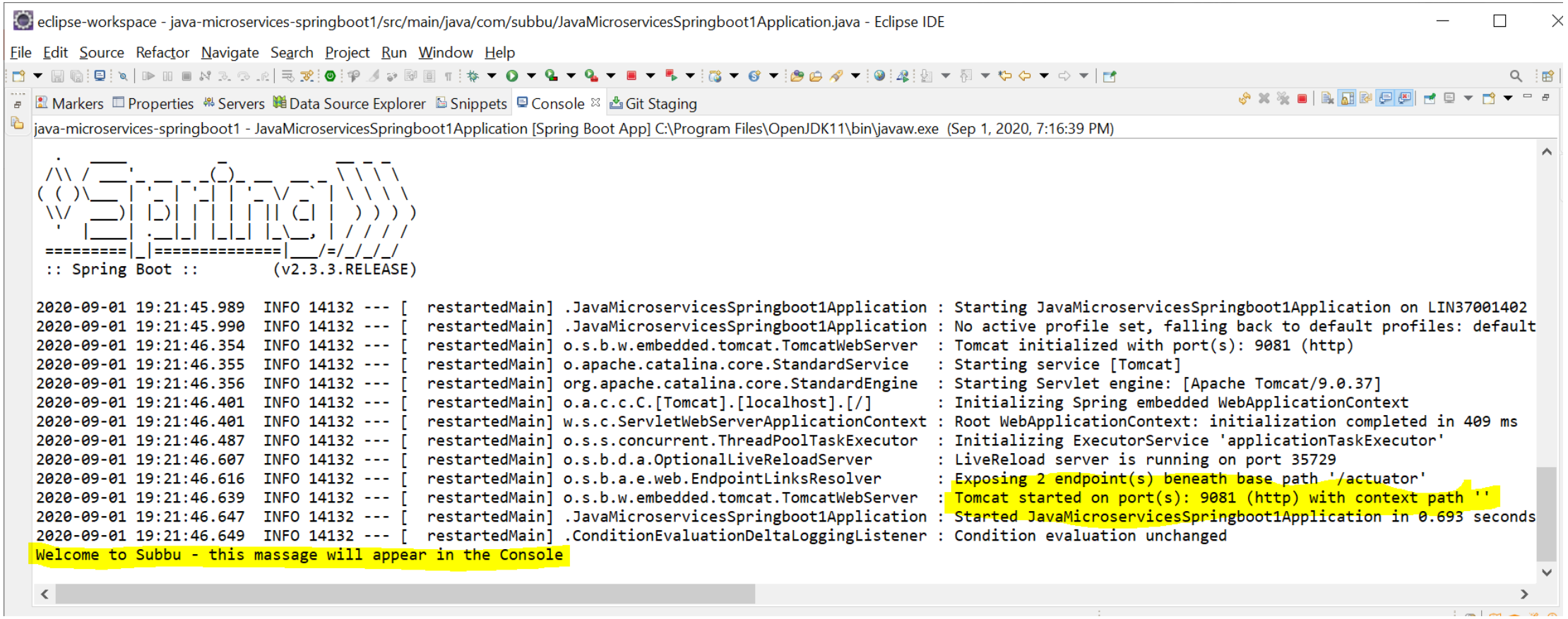
Project – Run as Spring Boot App:



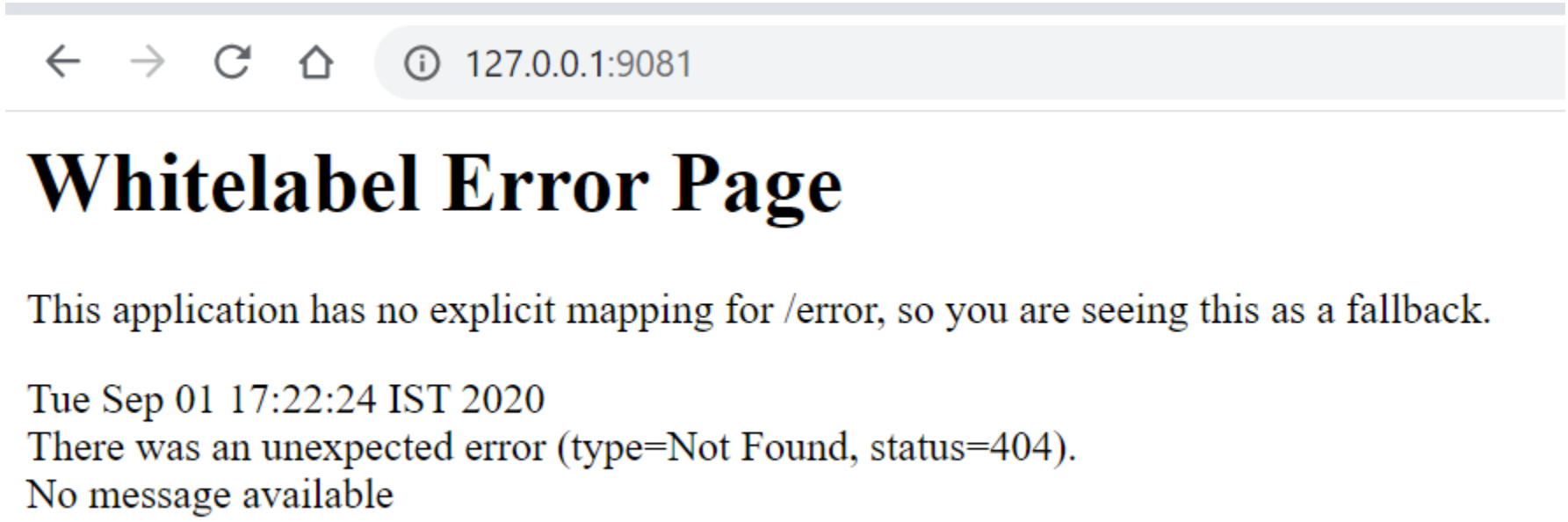
Successfully deployed with tomcat started on port 9081:



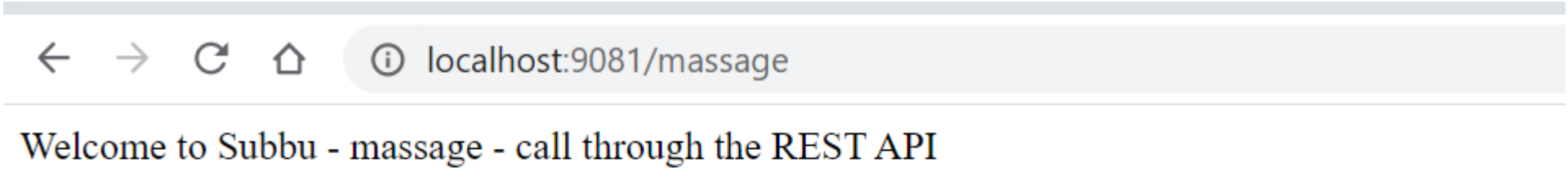
Console - Successfully deployed with tomcat started on port 9081:



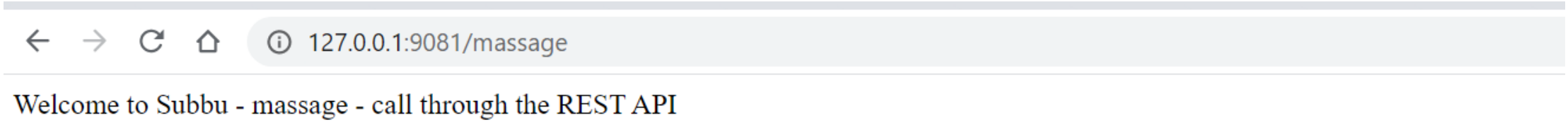
Browser output without GetMessage string:



http://localhost:9081/massage - output on Chrome by REST call:



http://127.0.0.1:9081/massage - output on Chrome by REST call:



Kill the tasks if the port has been used by other services:

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```
C:\Users\svemala>netstat -ano | findstr :9080
  TCP    0.0.0.0:9080           0.0.0.0:0              LISTENING       31576
  TCP    [::]:9080              [::]:0                 LISTENING       31576

C:\Users\svemala>taskkill /PID 31576 /F
SUCCESS: The process with PID 31576 has been terminated.

C:\Users\svemala>
```

Appendix:

Download the code from public GitGub:

1. HTTPS:

https://github.com/subbugh/java-microservices-springboot.git

2. SSH:

git@github.com:subbugh/java-microservices-springboot.git

3. Code Zip file: