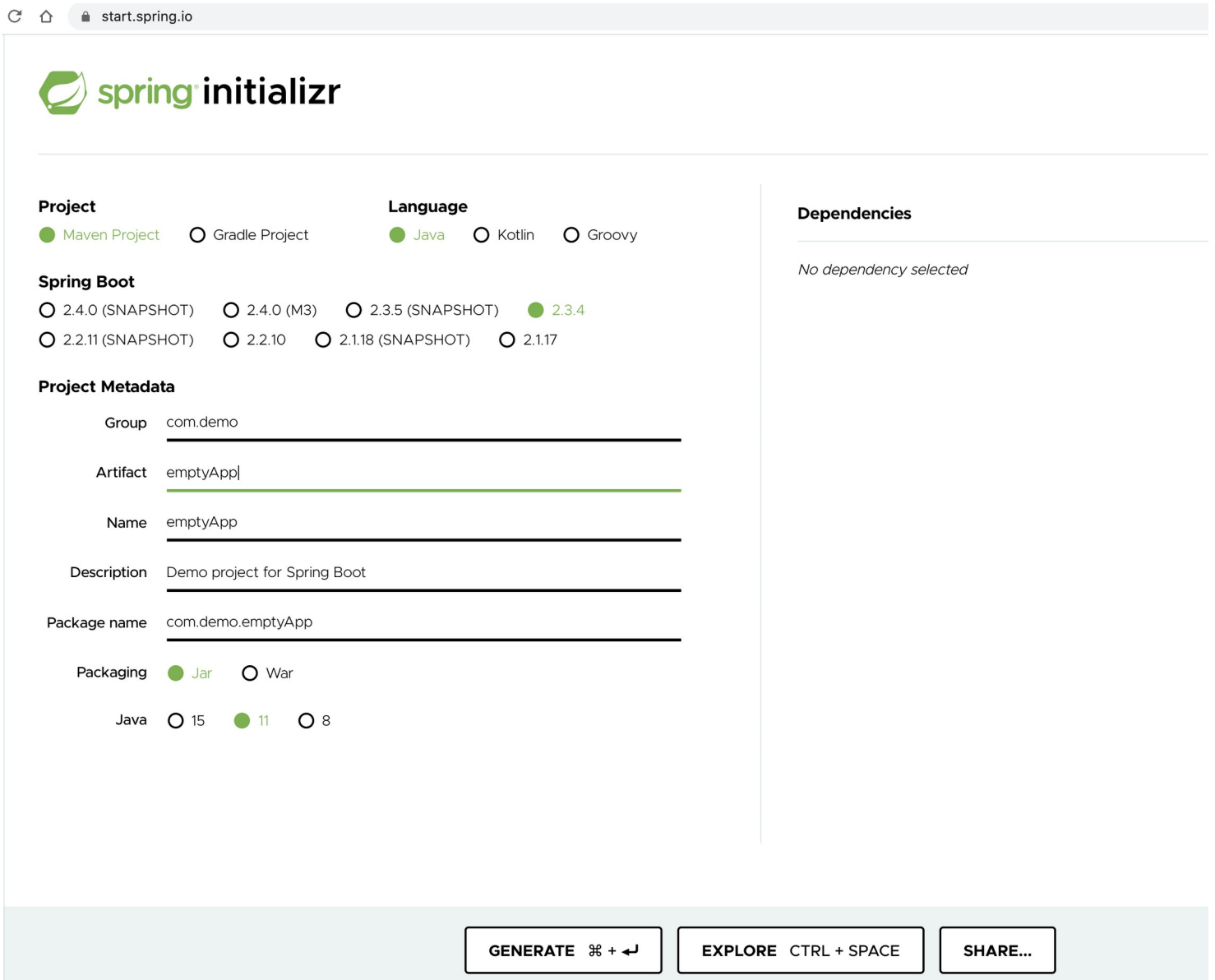
Spring boot – un aperçu

Visitez le site start.spring.IO

- Choisissez votre version de spring boot
- Renseignez groupId, ArtefactId (cf cours sur maven)

- Puis concernant les dépendances ...

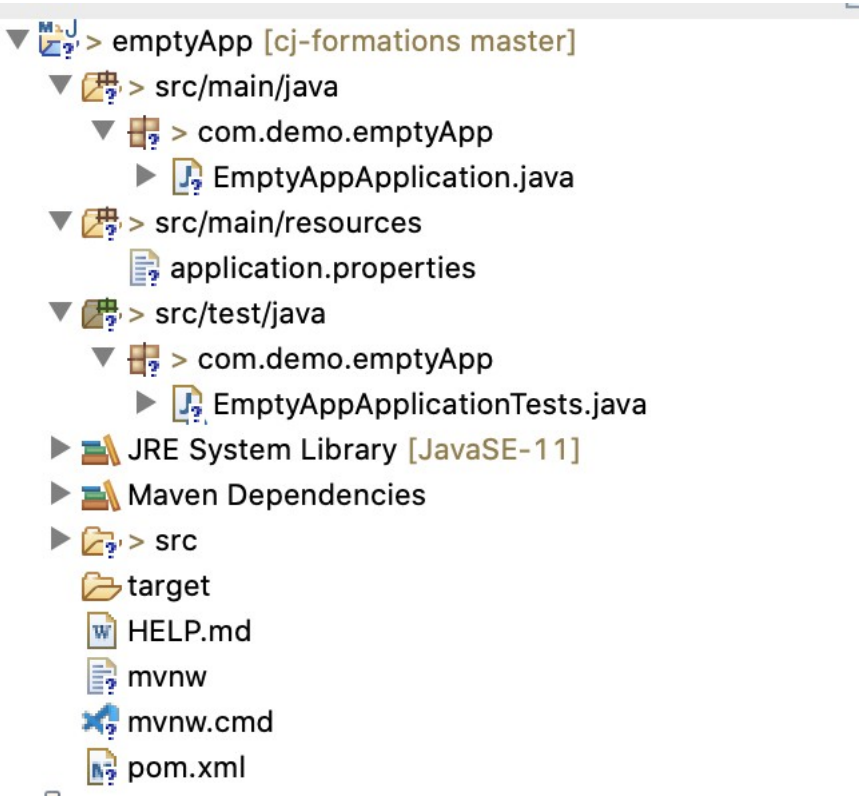
Exemple : Empty app démo



Exemple : Empty app démo (suite)

- Décompressez le emptyApp.zip
- Ouvrez l'application dans eclipse en tant que projet Maven

Attention : maven prend un moment (selon votre vitesse de connection) pour installer les librairies importées nécessaires à un projet spring boot , surtout la première fois, car ensuite les librairies sont présentes dans votre dossier .m2



Les dépendances installées via le pom.xml

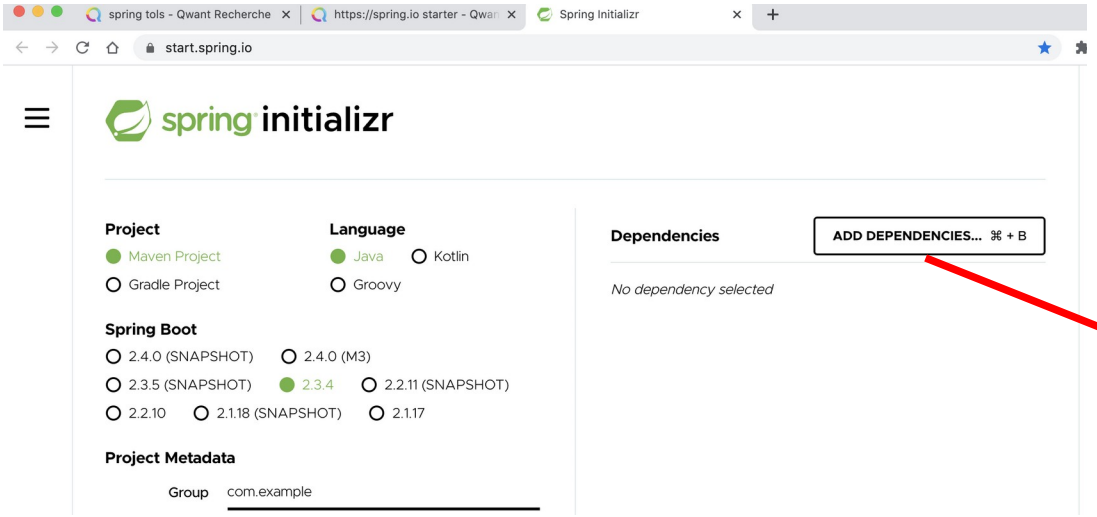
emptyApp/pom.xml

```xml
<?xml version="1.0" encoding="UTF-8"?>
<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-ins
    xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 https://maven.apache.org/xsd/maven-4.0.0
    <modelVersion>4.0.0</modelVersion>
    <parent>
        <groupId>org.springframework.boot</groupId>
        <artifactId>spring-boot-starter-parent</artifactId>
        <version>2.3.4.RELEASE</version>
        <relativePath/> <!-- lookup parent from repository -->
    </parent>
    <groupId>com.demo</groupId>
    <artifactId>emptyApp</artifactId>
    <version>0.0.1-SNAPSHOT</version>
    <name>emptyApp</name>
    <description>Demo project for Spring Boot</description>

    <properties>
        <java.version>11</java.version>
    </properties>

    <dependencies>
        <dependency>
            <groupId>org.springframework.boot</groupId>
            <artifactId>spring-boot-starter</artifactId>
        </dependency>

        <dependency>
            <groupId>org.springframework.boot</groupId>
            <artifactId>spring-boot-starter-test</artifactId>
            <scope>test</scope>
            <exclusions>
                <exclusion>
                    <groupId>org.junit.vintage</groupId>
                    <artifactId>junit-vintage-engine</artifactId>
                </exclusion>
            </exclusions>
        </dependency>
    </dependencies>

    <build>
        <plugins>
            <plugin>
                <groupId>org.springframework.boot</groupId>
                <artifactId>spring-boot-maven-plugin</artifactId>
            </plugin>
        </plugins>
    </build>

</project>
```

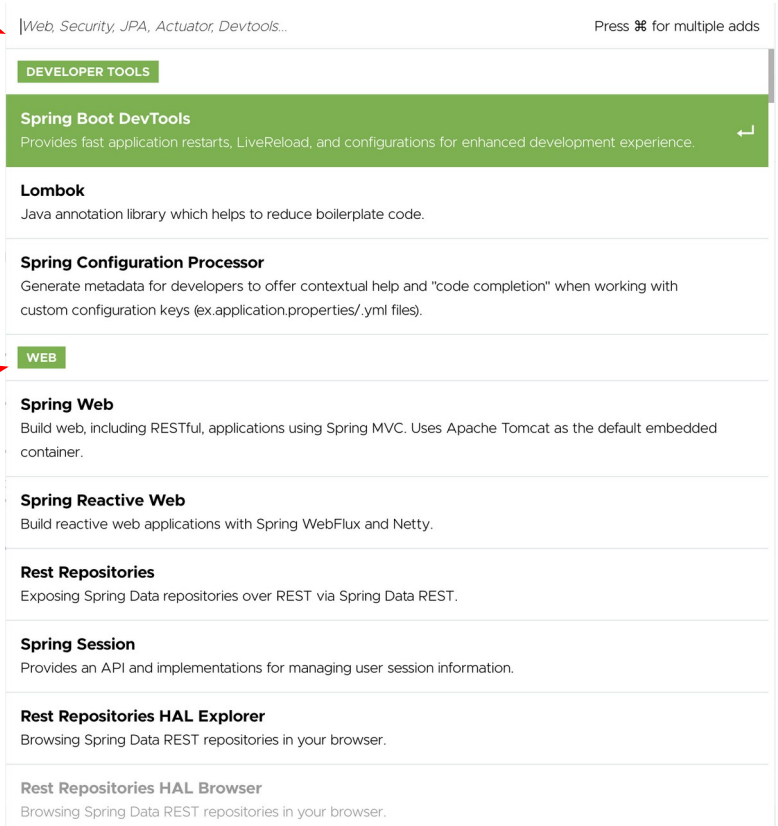
Maven Dependencies

- spring-boot-starter-2.3.4.RELEASE.jar - /Users/christian/.m2/repository/
- spring-boot-2.3.4.RELEASE.jar - /Users/christian/.m2/repository/org/spri
- spring-context-5.2.9.RELEASE.jar - /Users/christian/.m2/repository/org/s
- spring-aop-5.2.9.RELEASE.jar - /Users/christian/.m2/repository/org/sprir
- spring-beans-5.2.9.RELEASE.jar - /Users/christian/.m2/repository/org/sp
- spring-expression-5.2.9.RELEASE.jar - /Users/christian/.m2/repository/o
- spring-boot-autoconfigure-2.3.4.RELEASE.jar - /Users/christian/.m2/rep
- spring-boot-starter-logging-2.3.4.RELEASE.jar - /Users/christian/.m2/re
- logback-classic-1.2.3.jar - /Users/christian/.m2/repository/ch/qos/logbac
- logback-core-1.2.3.jar - /Users/christian/.m2/repository/ch/qos/logback/
- log4j-to-slf4j-2.13.3.jar - /Users/christian/.m2/repository/org/apache/log
- log4j-api-2.13.3.jar - /Users/christian/.m2/repository/org/apache/logging
- jul-to-slf4j-1.7.30.jar - /Users/christian/.m2/repository/org/slf4j/jul-to-sl
- jakarta.annotation-api-1.3.5.jar - /Users/christian/.m2/repository/jakarta/
- spring-core-5.2.9.RELEASE.jar - /Users/christian/.m2/repository/org/spri
- spring-jcl-5.2.9.RELEASE.jar - /Users/christian/.m2/repository/org/spring
- snakeyaml-1.26.jar - /Users/christian/.m2/repository/org/yaml/snakeyam
- spring-boot-starter-test-2.3.4.RELEASE.jar - /Users/christian/.m2/reposi
- spring-boot-test-2.3.4.RELEASE.jar - /Users/christian/.m2/repository/org
- spring-boot-test-autoconfigure-2.3.4.RELEASE.jar - /Users/christian/.m2
- json-path-2.4.0.jar - /Users/christian/.m2/repository/com/jayway/jsonpat
- json-smart-2.3.jar - /Users/christian/.m2/repository/net/minidev/json-sm
- accessors-smart-1.2.jar - /Users/christian/.m2/repository/net/minidev/ac
- asm-5.0.4.jar - /Users/christian/.m2/repository/org/ow2/asm/asm/5.0.4
- slf4j-api-1.7.30.jar - /Users/christian/.m2/repository/org/slf4j/slf4j-api/1
- jakarta.xml.bind-api-2.3.3.jar - /Users/christian/.m2/repository/jakarta/xr
- jakarta.activation-api-1.2.2.jar - /Users/christian/.m2/repository/jakarta/a
- assertj-core-3.16.1.jar - /Users/christian/.m2/repository/org/assertj/asse
- hamcrest-2.2.jar - /Users/christian/.m2/repository/org/hamcrest/hamcres
- junit-jupiter-5.6.2.jar - /Users/christian/.m2/repository/org/junit/jupiter/ju
- junit-jupiter-api-5.6.2.jar - /Users/christian/.m2/repository/org/junit/jupit
- apiguardian-api-1.1.0.jar - /Users/christian/.m2/repository/org/apiguardi
- opentest4j-1.2.0.jar - /Users/christian/.m2/repository/org/opentest4j/ope
- junit-platform-commons-1.6.2.jar - /Users/christian/.m2/repository/org/j
- junit-jupiter-params-5.6.2.jar - /Users/christian/.m2/repository/org/junit/j
- junit-jupiter-engine-5.6.2.jar - /Users/christian/.m2/repository/org/junit/ju
- junit-platform-engine-1.6.2.jar - /Users/christian/.m2/repository/org/juni
- mockito-core-3.3.3.jar - /Users/christian/.m2/repository/org/mockito/mo
- byte-buddy-1.10.14.jar - /Users/christian/.m2/repository/net/bytebuddy/
- byte-buddy-agent-1.10.14.jar - /Users/christian/.m2/repository/net/byte
- objenesis-2.6.jar - /Users/christian/.m2/repository/org/objenesis/objenes
- mockito-junit-jupiter-3.3.3.jar - /Users/christian/.m2/repository/org/mocl
- jsonassert-1.5.0.jar - /Users/christian/.m2/repository/org/skyscreamer/js
- android-json-0.0.20131108.vaadin1.jar - /Users/christian/.m2/repository
- spring-test-5.2.9.RELEASE.jar - /Users/christian/.m2/repository/org/sprir
- xmlunit-core-2.7.0.jar - /Users/christian/.m2/repository/org/xmlunit/xmlu

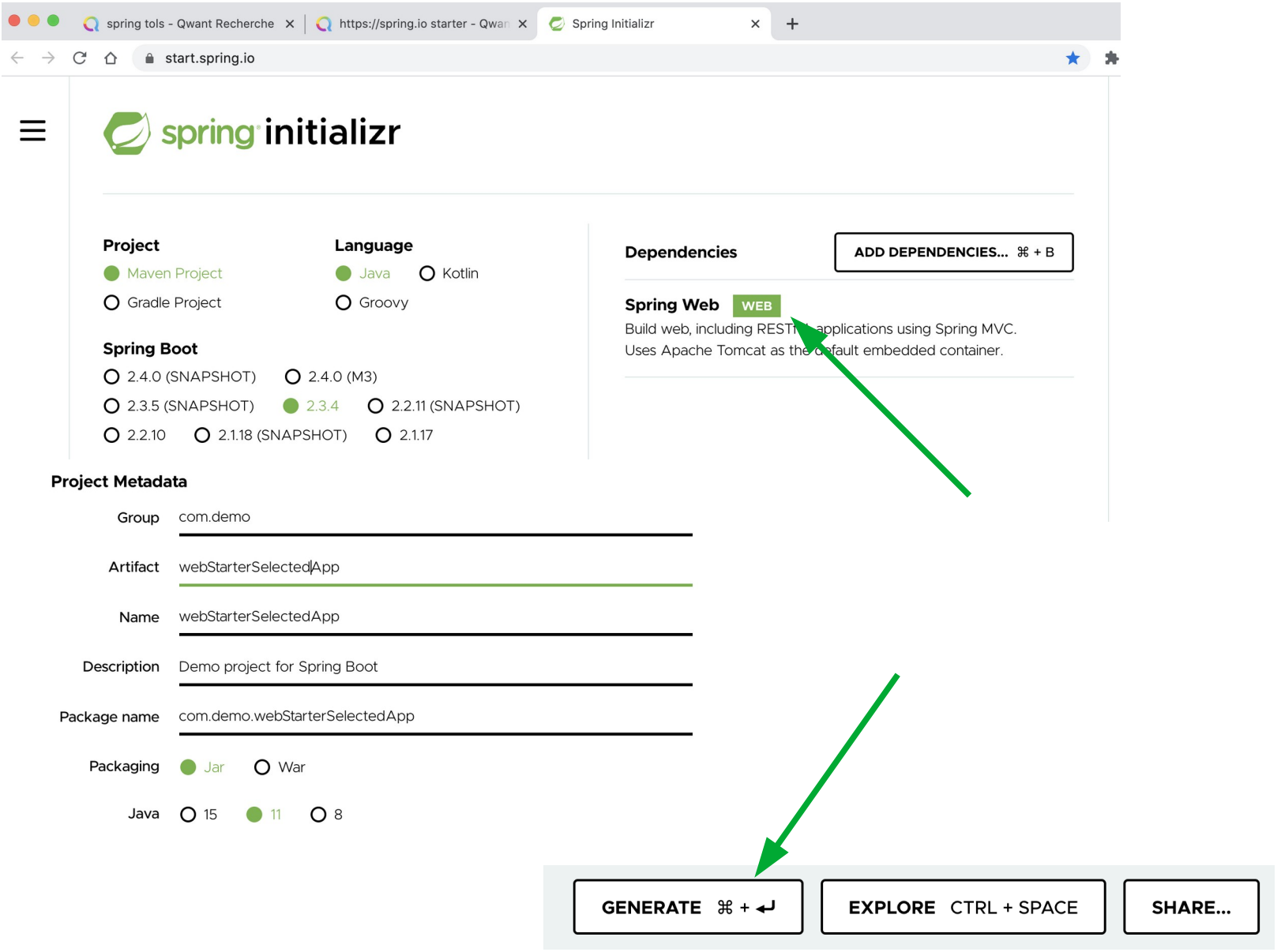
Exemple 2 Le choisir les dépendances d'un projet spring boot (lors de sa création)



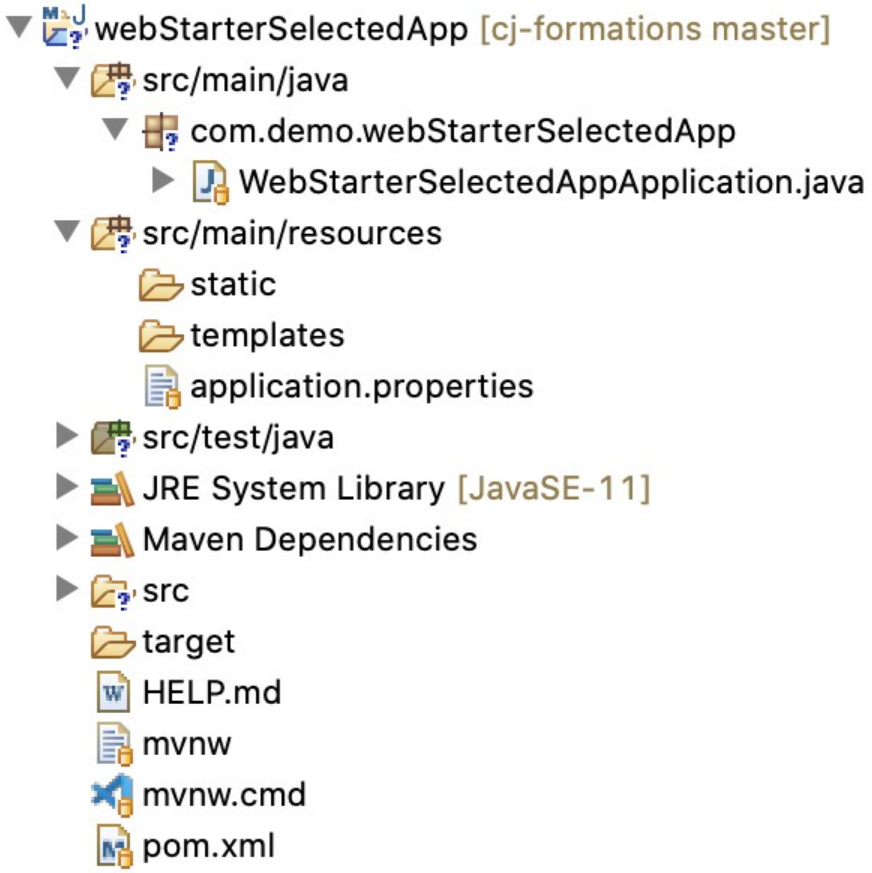
Choisir Web



Choisir Web pour la demo



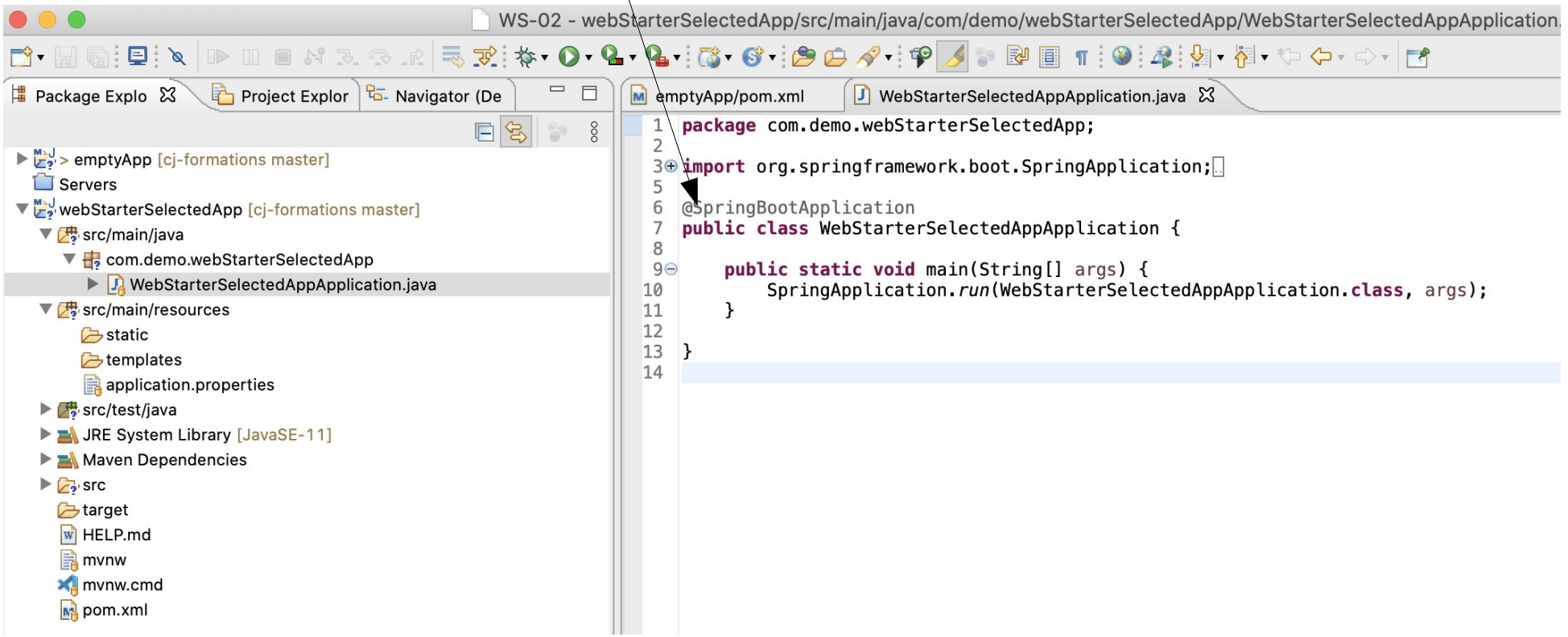
Le projet web spring boot généré



Remarque

- Dans les projets spring boot que l'on a crée , on y trouve des fichiers mvnw et mvnw.cmd
- Nous en parlerons par la suite, ainsi que de chaque répertoire et fichier présent dans le projet.

@SpringBootApplication

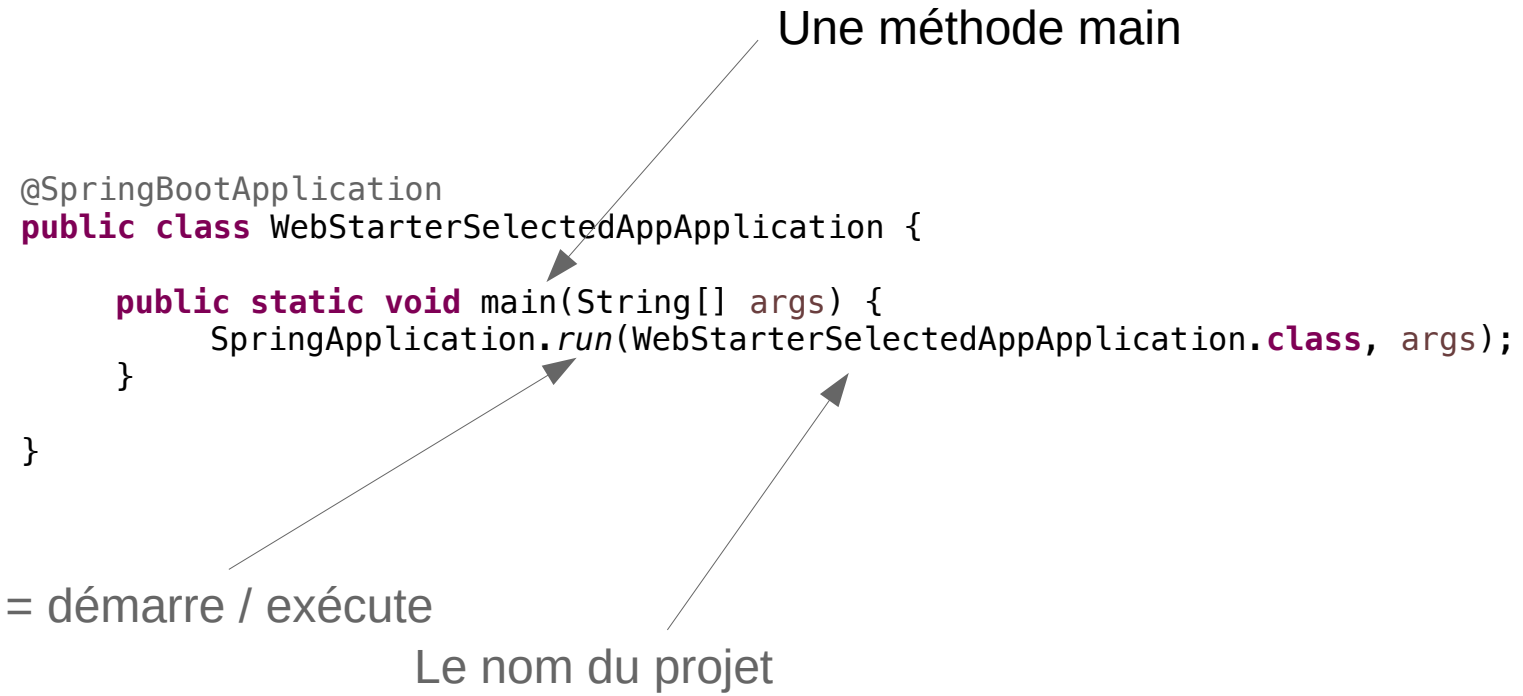


La classe annotée avec @SpringBootApplication sert à démarrer l'application Spring boot

@SpringBootApplication = "on a une application spring boot ici …"

On verra ce que cela signifie au-delà de ce message.

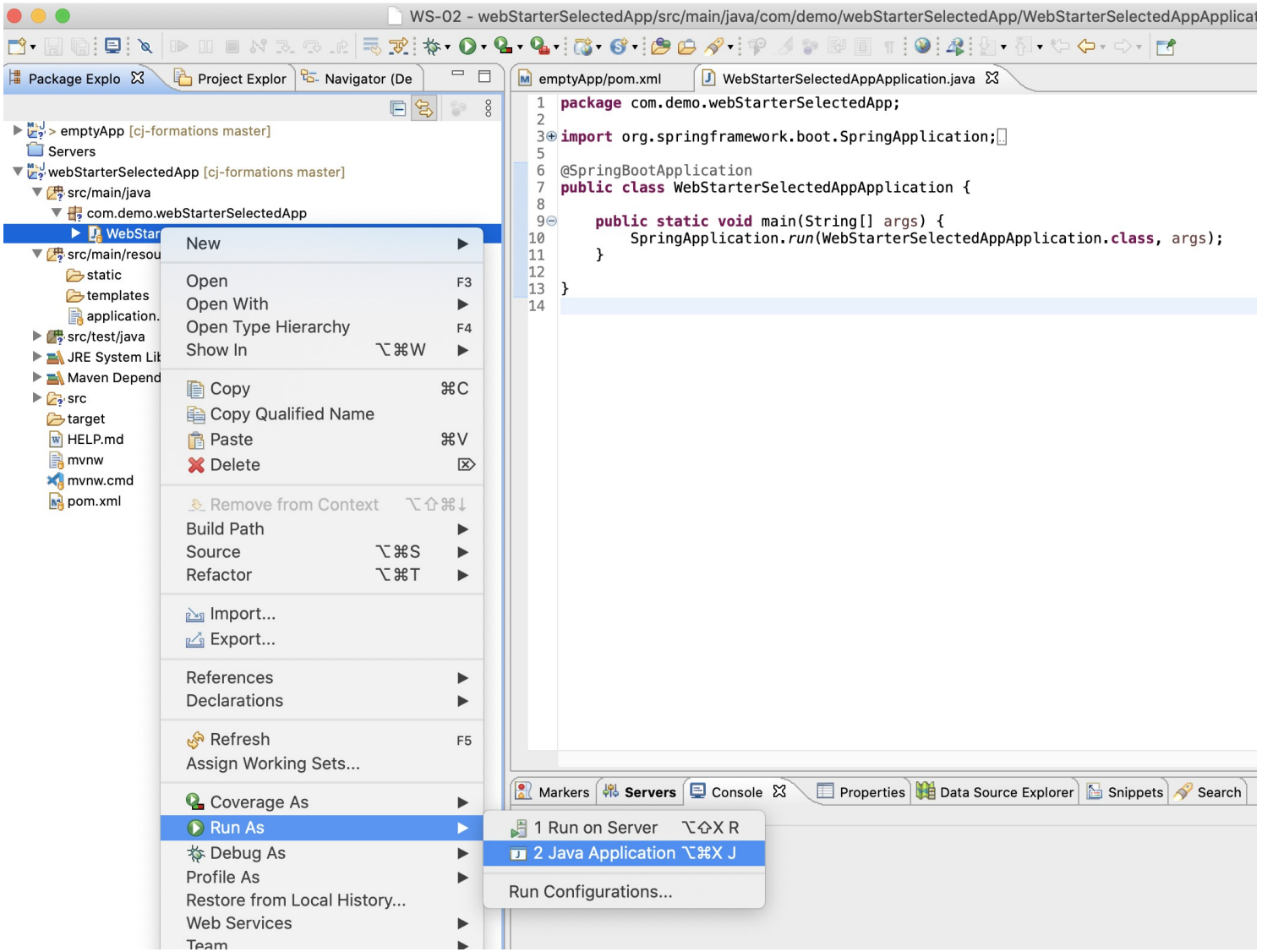
@SpringBootApplication



Démarrons cette application web en faisant un clic droit sur la classe WebStarterSelectedAppApplication >Run As > Java Application !!!

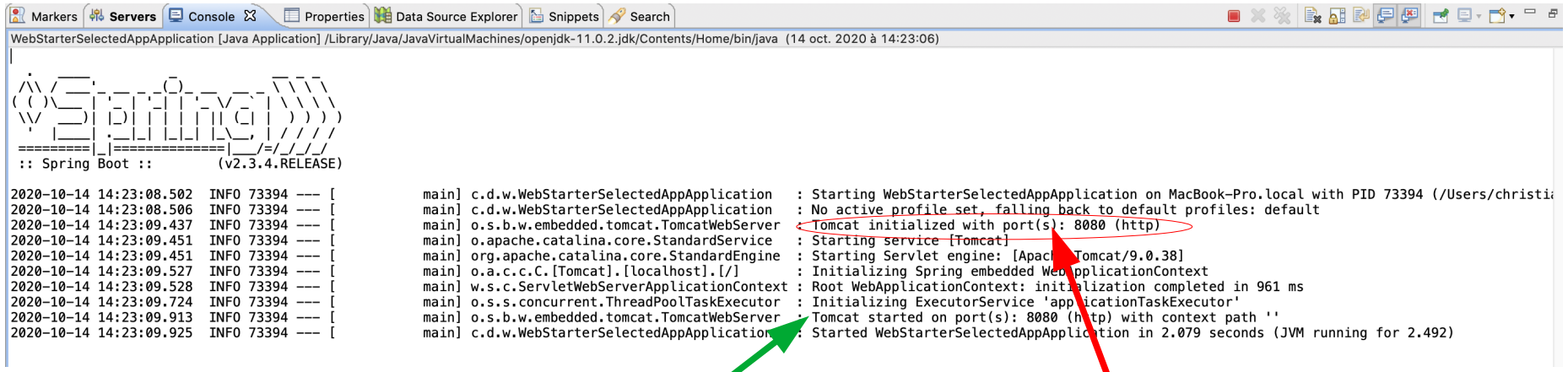
On démarre comme une application Java SE

Run as Java Application



Démarrage du projet spring boot

- On peut voir la bannière Spring boot au démarrage dans la console



NB : Spring boot a démarré sur le port 8080

NB : Spring boot possède son propre serveur embarqué

Ouvrez votre navigateur

Entrez l'adresse suivante **localhost :8080**