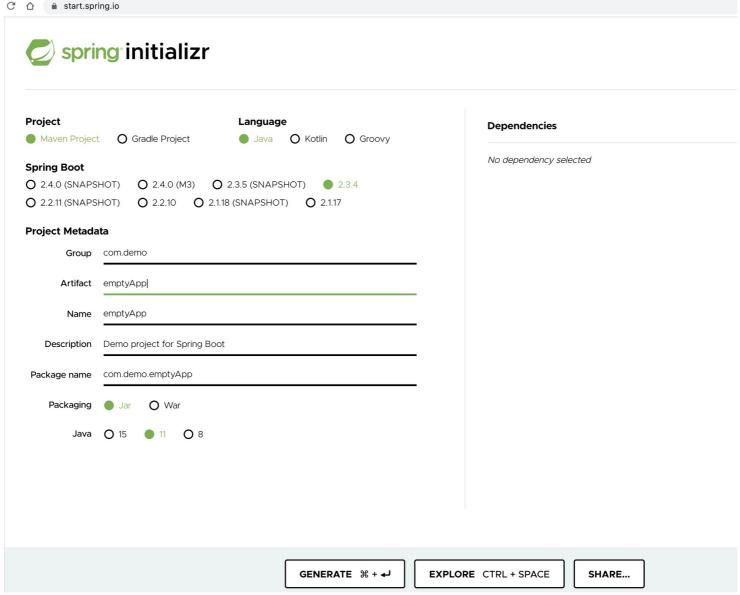
Spring boot – un aperçu

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



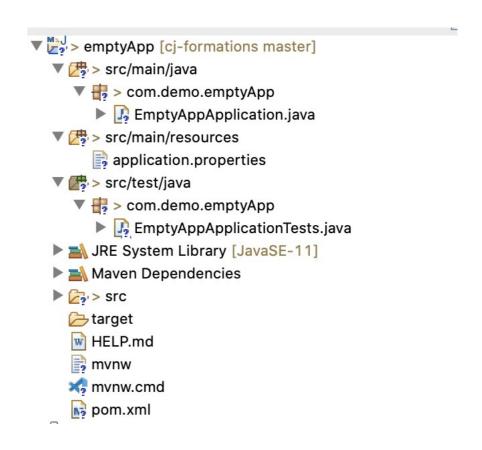
Exemple: Empty app démo (suite)

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

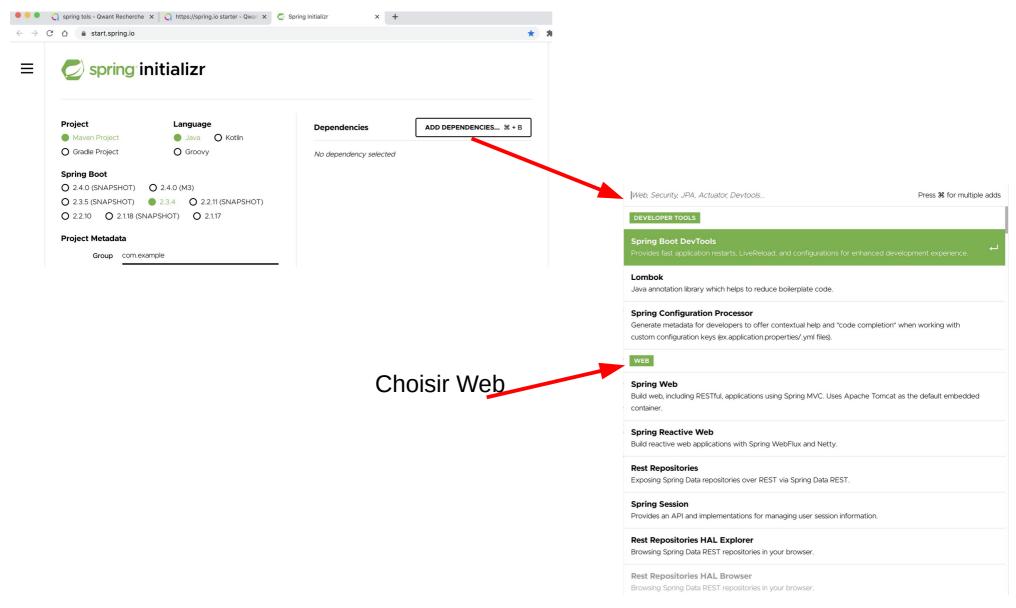


Les dépendances installées via le pom.xml

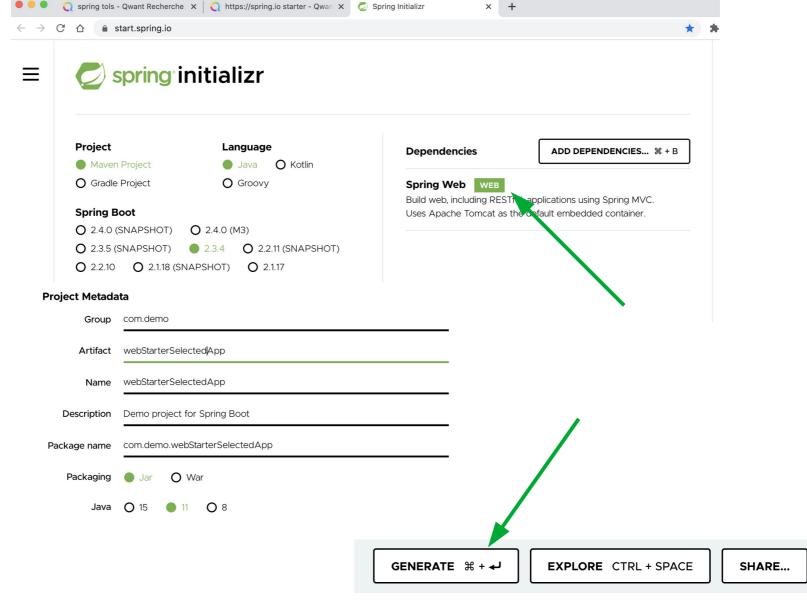
```
1 <?xml version="1.0" encoding="UTF-8"?
  29<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-ins
        xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 https://maven.apache.org/xsd/maven-4.0.0
  4
        <modelVersion>4.0.0</modelVersion>
        <parent>
            <groupId>org.springframework.boot</groupId>
            <artifactId>spring-boot-starter-parent</artifactId>
  8
            <version>2.3.4.RELEASE
  9
            <relativePath/> <!-- lookup parent from repository -->
 10
 11
        <groupId>com.demo</groupId>
 12
        <artifactId>emptyApp</artifactId>
 13
        <version>0.0.1-SNAPSHOT
 14
        <name>emptvApp</name>
 15
        <description>Demo project for Spring Boot</description>
 16
 17⊝
        cproperties>
 18
            <java.version>11</java.version>
 19
        20
 210
        <dependencies>
 220
            <dependency>
 23
                <groupId>org.springframework.boot</groupId>
 24
                <artifactId>spring-boot-starter</artifactId>
 25
            </dependency>
 26
 27⊖
            <dependency>
 28
                <groupId>org.springframework.boot</groupId>
 29
                <artifactId>spring-boot-starter-test</artifactId>
 30
                <scope>test</scope>
 31⊖
                <exclusions>
 32⊖
 33
                        <groupId>org.junit.vintage
 34
                        <artifactId>junit-vintage-engine</artifactId>
 35
                    </exclusion>
 36
                </exclusions>
 37
            </dependency>
 38
        </dependencies>
 39
 40⊖
         <build>
 41⊖
            <pluains>
 42⊖
                <plugin>
 43
                    <groupId>org.springframework.boot
 44
                    <artifactId>spring-boot-maven-plugin</artifactId>
 45
                </plugin>
 46
            </plugins>
 47
        </build>
 48
 49
    </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 ▶ m 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/ ▶ Mog4j-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/loggind ▶ migul-to-slf4j-1.7.30.jar - /Users/christian/.m2/repository/org/slf4j/jul-to-sl ▶ m 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 ▶ m spring-boot-starter-test-2.3.4.RELEASE.jar - /Users/christian/.m2/reposi ▶ m spring-boot-test-2.3.4.RELEASE.jar - /Users/christian/.m2/repository/org ▶ m spring-boot-test-autoconfigure-2.3.4.RELEASE.jar - /Users/christian/.m2 ▶ m json-path-2.4.0.jar - /Users/christian/.m2/repository/com/jayway/jsonpat ▶ mijson-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 ▶ Modern Slf4j-api-1.7.30.jar - /Users/christian/.m2/repository/org/slf4j/slf4j-api/1 language i 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/hamcrest ▶ m 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/jupiter apiguardian-api-1.1.0.jar - /Users/christian/.m2/repository/org/apiguardi opentest4j-1.2.0.jar - /Users/christian/.m2/repository/org/opentest4j/ope ▶ m 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/ji junit-platform-engine-1.6.2.jar - /Users/christian/.m2/repository/org/junit mockito-core-3.3.3.jar - /Users/christian/.m2/repository/org/mockito/mo ▶ m 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 ▶ m jsonassert-1.5.0.jar - /Users/christian/.m2/repository/org/skyscreamer/js ▶ \overline android-json-0.0.20131108.vaadin1.jar - /Users/christian/.m2/repositor 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 pour la demo



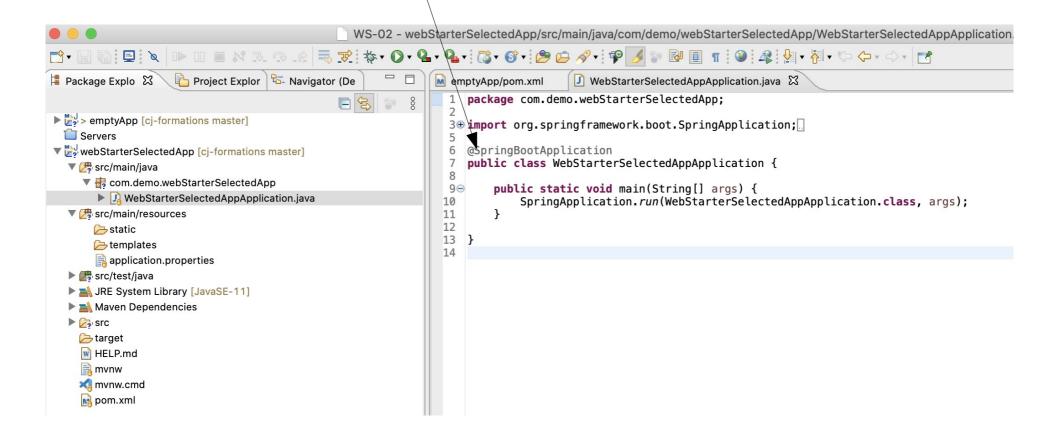
Le projet web spring boot généré

▼ 💆 webStarterSelectedApp [cj-formations master] ▼ 👺 src/main/java ▼ # com.demo.webStarterSelectedApp WebStarterSelectedAppApplication.java ▼ 📇 src/main/resources **static** templates application.properties src/test/java ▶ ■ JRE System Library [JavaSE-11] ► Maven Dependencies ▶ 🕞 src target W HELP.md mvnw mvnw.cmd pom.xml

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 audelà de ce message.

@SpringBootApplication

```
@SpringBootApplication
public class WebStarterSelectedAppApplication {
    public static void main(String[] args) {
        SpringApplication.run(WebStarterSelectedAppApplication.class, args);
    }
}

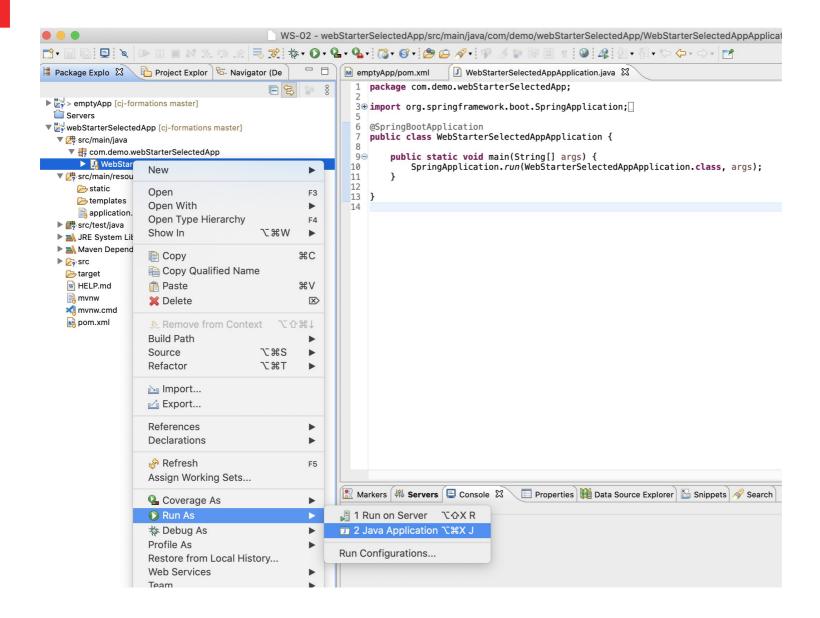
= démarre / exécute

Le nom du projet
```

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

```
📳 Markers 👫 Servers 🖃 Console 🖾 🔃 Properties 🕍 Data Source Explorer 🛅 Snippets 🔗 Search
WebStarterSelectedAppApplication [Java Application] /Library/Java/JavaVirtualMachines/openjdk-11.0.2.jdk/Contents/Home/bin/java (14 oct. 2020 à 14:23:06
 :: Spring Boot ::
2020-10-14 14:23:08.502 INFO 73394 ---
                                                        main] c.d.w.WebStarterSelectedAppApplication
                                                                                                        : Starting WebStarterSelectedAppApplication on MacBook-Pro.local with PID 73394 (/Users/christia
2020-10-14 14:23:08.506
                          INFO 73394 ---
                                                        mainl c.d.w.WebStarterSelectedAppApplication
                                                                                                          : No active profile set, falling back to default profiles: default
2020-10-14 14:23:09.437 INFO 73394 ---
                                                        main] o.s.b.w.embedded.tomcat.TomcatWebServer
                                                                                                          Tomcat initialized with port(s): 8080 (http)
2020-10-14 14:23:09.451 INFO 73394 ---
                                                        main] o.apache.catalina.core.StandardService : Starting service [Tomcat]
2020-10-14 14:23:09.451 INFO 73394 ---
                                                        main] org.apache.catalina.core.StandardEngine : Starting Servlet engine: [Apacl Tomcat/9.0.38]
2020-10-14 14:23:09.527
                                                       main] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring embedded Wer pplicationContext main] w.s.c.ServletWebServerApplicationContext : Root WebApplicationContext: initialization completed in 961 ms
2020-10-14 14:23:09.528
                          INFO 73394 ---
2020-10-14 14:23:09.724 INFO 73394 ---
                                                        main] o.s.s.concurrent.ThreadPoolTaskExecutor
                                                                                                          : Initializing ExecutorService 'app icationTaskExecutor'
                                                                                                            Tomcat started on port(s): 8080 (http) with context path ''
2020-10-14 14:23:09.913 INFO 73394 ---
                                                        main] o.s.b.w.embedded.tomcat.TomcatWebServer
2020-10-14 14:23:09.925 INFO 73394 ---
                                                        main] c.d.w.WebStarterSelectedAppApplication
                                                                                                            Started WebStarterSelectedAppApplication in 2.079 seconds (JVM running for 2.492)
```

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

