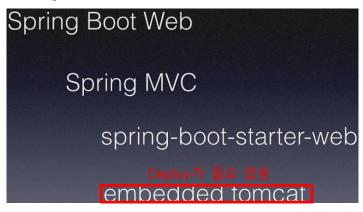
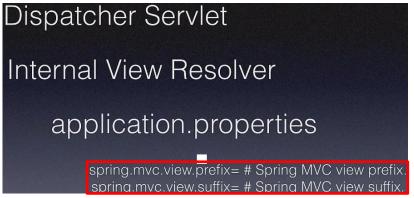
### 1. 소개

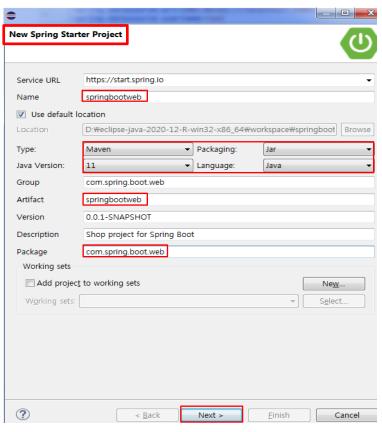


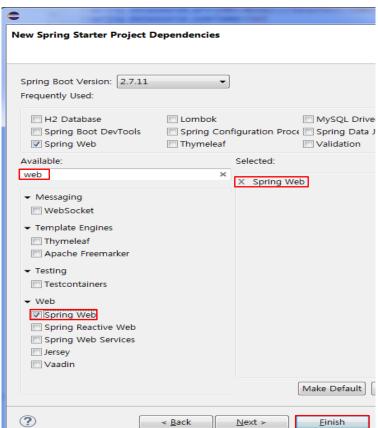
- Dispatcher Servlet, Internal View Resolver 설정이 필요 없음
- Spring starter web dependency를 사용해 시작하면, 스프링은 모든 웹의 모든 설정을 자동화 해줌
- 뷰 리졸버를 커스텀하게 설정하고 싶다면, 단순하게 application.properties를 사용할 수 있음



프로퍼티 참조 사이트: https://docs.spring.io/spring-boot/docs/current/reference/html/application-properties.html

- 2. 스프링 MVC 프로젝트 만들기
- 가. 프로젝트 만들기





```
1 K?xml version="1.0" encoding="UTF-8"?>
                                                                                                    20roject xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="htt
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 https://maven.apache.org/POM/4.0.0 https://maven.apache.org/POM/4.0 https://wawen.apache.org/POM/4.0 htt
                                                                                                    4
                                                                                                                    <modelVersion>4.0.0</modelVersion>
                                                                                                    5⊜
                                                                                                                    <parent>
                                                                                                    6
                                                                                                                            <groupId>org.springframework.boot</groupId>
                                                                                                                            <artifactId>spring-boot-starter-parent</artifactId>
                                                                                                                            <version>2.7.11</version>
                                                                                                    8
                                                                                                                            <relativePath/> <!-- lookup parent from repository -->
                                                                                                  10
                                                                                                                    </parent>
                                                                                                                    <groupId>com.spring.boot.web</groupId>
                                                                                                  11
                                                                                                  12
                                                                                                                    <artifactId>springbootweb</artifactId>
                                                                                                  13
                                                                                                                    <version>0.0.1-SNAPSHOT</version>
                                                                                                                    <name>springbootweb</name>
                                                                                                                    <description>Shop project for Spring Boot</description>
                                                                                                                    properties>
                                                                                                  16⊝
                                                                                                  17
                                                                                                                            <java.version>11</java.version>
                                                                                                  18
                                                                                                                    </properties>

■ Springbootweb [boot]

                                                                                                  19⊝
                                                                                                                    <dependencies>
      <dependency:</p>
                                                                                                 20⊝
           d == com.spring.boot.web
                                                                                                                                      <groupId>org.springframework.boot</groupId>
                                                                                                 21
               ▶ ☑ SpringbootwebApplication.java
                                                                                                  22
                                                                                                                                      <artifactId>spring-boot-starter-web</artifactId>
                                                                                                                            </dependency>
      24
               static
                                          정적 페이지
                                                                                                  25⊝
                                                                                                                            <dependency>
                 <u>> ternplates 동적 페이지</u>: 템플릿 엔진
                                                                                                                                      <groupId>org.springframework.boot</groupId>
                                                                                                  26
                                                                                                  27
                                                                                                                                      <artifactId>spring-boot-starter-test</artifactId>
               application.properties
                                                                                                  28
                                                                                                                                      <scope>test</scope>

> 
    src/test/java

                                                                                                  29
                                                                                                                            </dependency>
    30
                                                                                                                    </dependencies>
     31
                                                                                                                    <build>
     33⊝
                                                                                                                            <plugins>
               main
                                                                                                  34⊝
                                                                                                                                      <plugin>
               test
                                                                                                  35
                                                                                                                                               <groupId>org.springframework.boot</groupId>
         target
                                                                                                  36
                                                                                                                                               <artifactId>spring-boot-maven-plugin</artifactId>
                                                                                                  37
                                                                                                                                      </plugin>
          W HELP.md
                                                                                                                            </plugins>
                                                                                                  38
          mvnw mvnw
                                                                                                                    </build>
                                                                                                 30
         mvnw.cmd
                                                                                                 40
                                                                                                 41 </project>

    pom.xml
```

## 나. pom.xml 수정: 한글처리

```
springbootweb/pom.xml 🖂
     <?xml version="1.0" encoding="UTF-8"?>
  2⊖ <project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/200
         xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 https://maven.apache.org/
         <modelVersion>4.0.0</modelVersion>
  5⊝
         <parent>
  6
             <groupId>org.springframework.boot</groupId>
             <artifactId>spring-boot-starter-parent</artifactId>
  2
             <version>2.7.11
             <relativePath/> <!-- lookup parent from repository -->
  9
         </parent>
 10
         <aroupId>com.spring.boot.web</aroupId>
 11
         <artifactId>springbootweb</artifactId>
         <version>0.0.1-SNAPSHOT</version>
 13
 14
         <name>springbootweb</name>
 15
         <description>Shop project for Spring Boot</description>
 16⊜
             kproject.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
18
             kproject.reporting.outputEncoding>UTF-8</project.reporting.outputEncoding>
 19
             <java.version>11</java.version>
 20
         </properties>
```

- 3. 컨트롤러 만들기
- 4. 애플리케이션 실행
- 5. 애플리케이션 컨텍스트 패스(context path) 설정하기
- P application.properties S SpringbootwebApplication.java

  1 server.port=8081
  2 server.servlet.context-path=/springbootweb

Boot 1.X 에서는 server.context-path

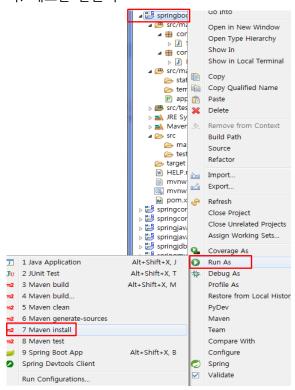
Boot 2.X 이상에서는 server.servlet.context-path



hello 김형태

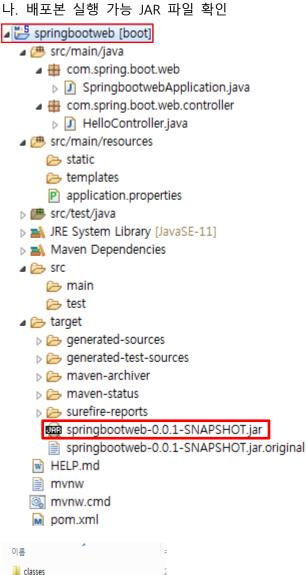
# 6. Wars 대신 Jars로

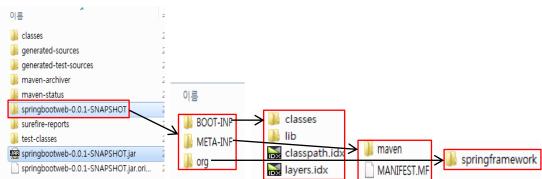
# 가. 배포본 만들기



```
    □ Console 
    □ Progress 
    □ Problems 
    □ Servers

 <terminated> D:\Java\jdk-11.0.16.1\bin\javaw.exe (2023. 4. 26. 오후 8:27:43)
sterminated > D:#Java\( \) \text{Linit} \text{init\( \) \text{ava}\( \) \text{valin} \text{init\( \) \text{case}} \) \text{Class path contains multiple SLF4] bindings.} \text{SLF4]: Found binding in [jar:file:/D:/eclipse-java-2020-12-R-win32-x86_64/plugins/org.eclipse.m2e.maven.runtime.sl SLF4]: Found binding in [file:/D:/eclipse-java-2020-12-R-win32-x86_64/configuration/org.eclipse.osgi/5/0/.cp/org/s SLF4]: See http://www.slf4j.org/codes.html\( \) multiple bindings for an explanation. SLF4]: Actual binding is of type [org.slf4j.impl.SimpleLoggerFactory] SLF4]: Class path contains multiple SLF4J bindings. SLF4]: Found binding in [file:/D:/eclipse-java-2020-12-R-win32-x86_64/plugins/org.eclipse.m2e.maven.runtime.sl SLF4]: Found binding in [file:/D:/eclipse-java-2020-12-R-win32-x86_64/configuration/org.eclipse.osgi/5/0/.cp/org/s SLF4]: See http://www.slf4j.org/codes.html\( \) multiple bindings for an explanation. SLF4]: Found binding is of type [org.slf4].impl.SimpleLoggerFactory]
  [INFO] Scanning for projects...
   TINFO
  [INFO] |
| INFO] Building springbootweb 0.0.1-SNAPSHOT |
  [INFO] ------
   [TNFO]
                                                    resources-plugin:3.2.0:resources (default-resources) @ springbootweb ---
  [INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] Using 'UTF-8' encoding to copy filtered properties files.
[INFO] Copying 1 resource
[INFO] Copying 0 resource
   TNFO
  [INFO] --- maven-compiler-plugin:3.10.1:compile (default-compile) @ springbootweb ---
[INFO] Changes detected - recompiling the module!
[INFO] Compiling 2 source files to D:\eclipse-java-2020-12-R-win32-x86_64\workspace\springbootweb\target\classes
  [INFO]
                              maven-resources-plugin:3.2.0:testResources (default-testResources) @ springbootweb ---
  [INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] Using 'UTF-8' encoding to copy filtered properties files
   INFO] skip non existing resourceDirectory D:\eclipse-java-2020-112-R-win32-x86_64\workspace\springbootweb\src\test
   TINFO
                      --- maven-compiler-plugin:3.10.1:testCompile (default-testCompile) @ springbootweb ---
  [INFO] Changes detected - recompiling the module!
[INFO] Compiling 1 source file to D:\eclipse-java-2020-12-R-win32-x86_64\workspace\springbootweb\target\test-class
   TNFO
                    --- maven-surefire-plugin:2.22.2:test (default-test) @ springbootweb ---
  [INFO]
   [INFO]
    [INFO]
   [INFO]
 [IMFO] Running com.spring.boot.web.SpringbootwebApplicationTests
20:27:48.384 [main] DEBUG org.springframework.test.context.BootstrapUtils - Instantiating CacheAwareContextLoaderD
20:27:48.402 [main] DEBUG org.springframework.test.context.BootstrapUtils - Instantiating BootstrapContext using c
20:27:48.436 [main] DEBUG org.springframework.test.context.BootstrapUtils - Instantiating TestContextBootstrapper
20:27:48.447 [main] IMFO org.springframework.boot.test.context.SpringBootTestContextBootstrapper - Neither @Context
20:27:48.450 [main] DEBUG org.springframework.test.context.support.AbstractContextLoader - Did not detect default
20:27:48.451 [main] DEBUG org.springframework.test.context.support.AbstractContextLoader - Did not detect default
20:27:48.451 [main] IMFO org.springframework.test.context.support.AbstractContextLoader - Could not detect default
20:27:48.451 [main] IMFO org.springframework.test.context.support.AbnotationConfigContextLoaderUtils - Could not d
20:27:48.504 [main] DEBUG org.springframework.test.context.support.AbstractContextLoaderUtils - Could not d
20:27:48.563 [main] DEBUG org.springframework.test.context.support.AbstractSontextLoaderUtils - Could not find an 'annota
20:27:48.563 [main] DEBUG org.springframework.test.context.support.AbstractSontextSontextLoaderUtils - Could not find an 'annota
   [INFO]
  20:27:48.563 [main] DEBUG org.springframework.context.annotation.ClassPathScanningCandidateComponentProvider - Ide 20:27:48.565 [main] INFO org.springframework.boot.test.context.SpringBootTestContextBootStrapper - Found @SpringBo 20:27:48.668 [main] DEBUG org.springframework.boot.test.context.SpringBootTestContextBootStrapper - @TestExecution
  20:27:48.669 [main] INFO org.springframework.boot.test.context.SpringBootTestContextBootstrapper - Loaded default
20:27:48.684 [main] DEBUG org.springframework.boot.test.context.SpringBootTestContextBootstrapper - Skipping candi
20:27:48.685 [main] DEBUG org.springframework.boot.test.context.SpringBootTestContextBootstrapper - Skipping candi
20:27:48.685 [main] INFO org.springframework.boot.test.context.SpringBootTestContextBootstrapper - Using TestExecu
  20:27:48.689 [main] DEBUG org.springframework.test.context.support.AbstractDirtiesContextTestExecutionListener
2023-04-26 20:27:49.117 INFO 5204 --- [
2023-04-26 20:27:49.119 INFO 5204 --- [
2023-04-26 20:27:50.758 INFO 5204 --- [
                                                                                                                                                  main] c.s.b.web.SpringbootwebApplicationTests : Starting Sprin
main] c.s.b.web.SpringbootwebApplicationTests : No active prof
main] c.s.b.web.SpringbootwebApplicationTests : Started Spring
   [INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 2.747 s - in com.spring.boot.web.Springboot
   [INFO] Results:
    [TNF0]
    [INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0
  [INFO]
  inNoj --- maven-jar-plugin:3.2.2:jar (default-jar) @ springbootweb ---
[INFO] Building jar: D:\eclipse-java-2020-12-R-win32-x86_64\workspace\springbootweb\target\springbootweb-0.0.1-SNA
  [INFO]
   TNFO
                       --- spring-boot-mayen-plugin:2.7.11:repackage (repackage) @ springbootweb -
  [INFO] Downloading from : https://repo.maven.apache.org/maven2/org/springframework/boot/spring-boot-buildpack-plat
[INFO] Downloaded from : https://repo.maven.apache.org/maven2/org/springframework/boot/spring-boot-buildpack-platf
  [INFO] Downloadding from: https://repo.maven.apache.org/maven2/org/springframework/boot/spring-boot-loader-tools/2
[INFO] Downloadding from: https://repo.maven.apache.org/maven2/org/springframework/boot/spring-boot-loader-tools/2
[INFO] Downloadding from: https://repo.maven.apache.org/maven2/org/springframework/boot/spring-boot-buildpack-plat
[INFO] Downloadding from: https://repo.maven.apache.org/maven2/org/springframework/boot/spring-boot-buildpack-plat
[INFO] Downloadded from: https://repo.maven.apache.org/maven2/org/springframework/boot/spring-boot-buildpack-platf
[INFO] Downloadded from: https://repo.maven2/org/springframework/boot/spring-boot-buildpack
   [INFO] Replacing main artifact with repackaged archive
   [TNFO]
  [INFO] --- maven-install-plugin:2.5.2:install (default-install) @ springbootweb ---
[INFO] Installing D:\eclipse-java-2020-12-R-win32-x86_64\workspace\springbootweb\target\springbootweb-0.0.1-SNAPSH
[INFO] Installing D:\eclipse-java-2020-12-R-win32-x86_64\workspace\springbootweb\pom.xml to C:\Users\VIP\.m2\repos
   INFO
   [INFO]
  [INFO]
   [INFO] Total time: 8.751 s
    INFO] Finished at: 2023-04-26T20:27:53+09:00
  [INFO]
  [WARNING] The requested profile "pom.xml" could not be activated because it does not exist.
```

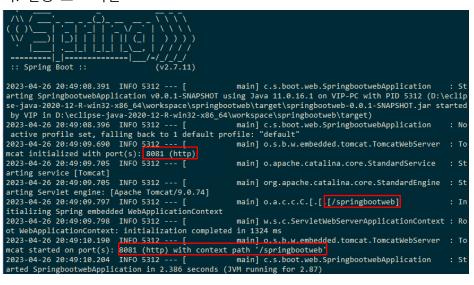




### 다. JAR 파일 실행

```
cmd - java -jar springbootweb-0.0.1-SNAPSHOT.jar
<1> cmd - iava -ja...
$ cd D:\eclipse-java-2020-12-R-win32-x86_64\workspace\springbootweb\target
     IP-PC D:\eclipse-java-2020-12-R-win32-x86_64\workspace\springbootweb\target
$ dir
 D 드라이브의 볼륨: 새 볼륨
 볼륨 일련 번호: 3ACF-E30F
 D:\eclipse-java-2020-12-R-win32-x86_64\workspace\springbootweb\target 디렉터리
2023-04-26 오후 08:44
2023-04-26 오후 08:44
                          <DIR>
                          <DTR>
2023-04-26 오후 06:43
                          <DIR>
                                         classes
            오후 08:27
                                         generated-sources
2023-04-26
                          <DIR>
2023-04-26 오후 08:27
                                         generated-test-sources
                          <DIR>
2023-04-26 오후 08:27
                          <DIR>
                                         maven-archiver
2023-04-26 오후 08:27
                          <DIR>
                                         maven-status
2023-04-26 오후 08:27
                             17,685,963 springbootweb-0.0.1-SNAPSHOT.jar
2023-04-26 오후 08:27
                                   4,004 springbootweb-0.0.1-SNAPSHOT.jar.original
2023-04-26 오후 08:27
                          <DIR>
                                         surefire-reports
2023-04-26 오후 06:43
                          <DIR>
                                         test-classes
               2개 과일 17,689,967 바이트
9개 디렉터리 256,706,396,160 바이트 남음
$ java -jar springbootweb-0.0.1-SNAPSHOT.jar
```

# 라. 실행 로그 확인



### 마. 웹 브라우저 실행

← → C ① localhost:8081/springbootweb/hello?name=김형태

hello 김형태