

Spring Framework

20. Spring MVC 환경설정

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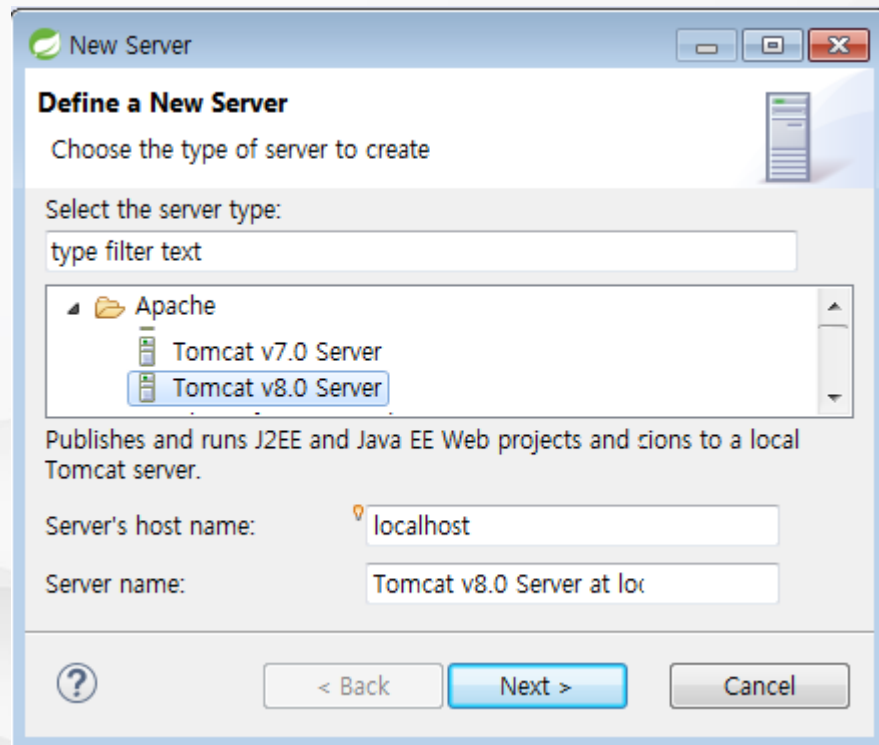
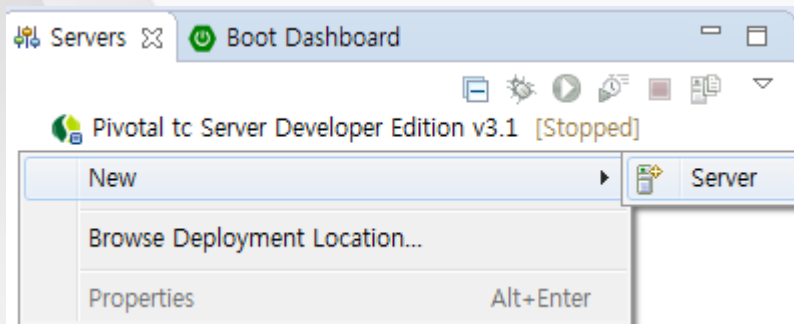
학습 목표

- Server 등록 및 Browser 설정에 대하여 이해할 수 있습니다.
- Dynamic Web Project 작성에 대하여 이해할 수 있습니다.
- Spring MVC 설정에 대하여 이해할 수 있습니다.

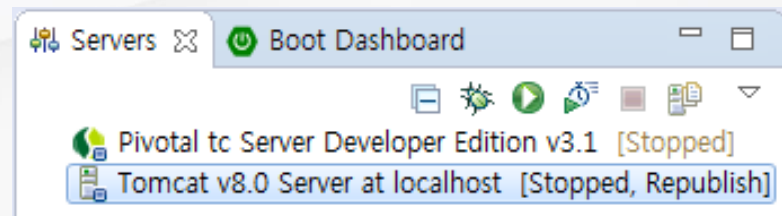
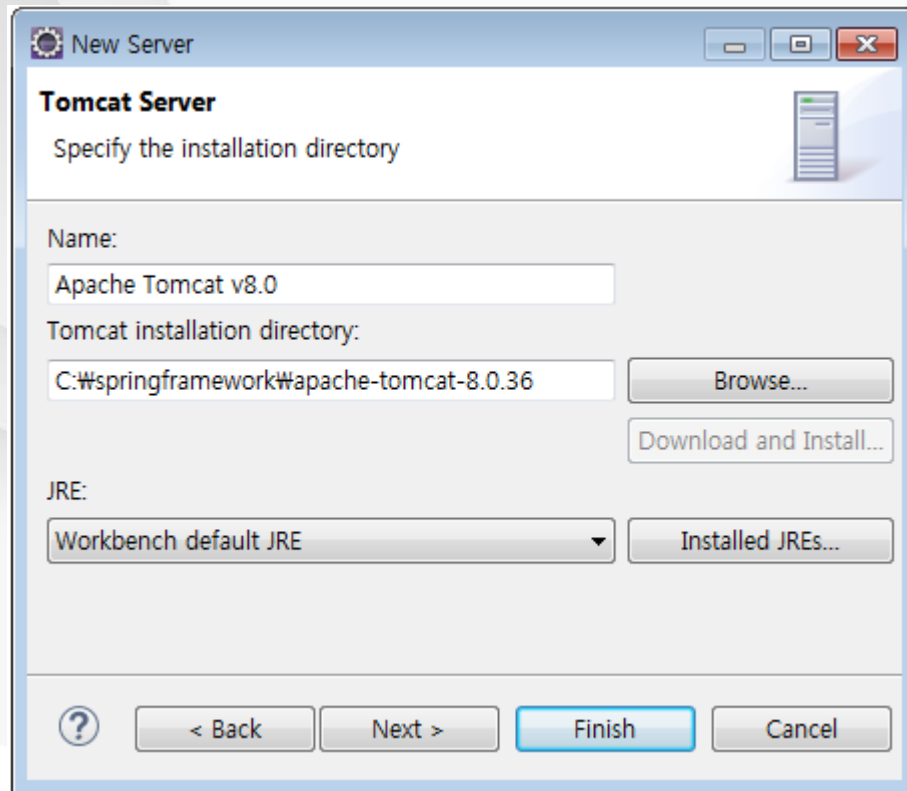
A person's hands are shown holding a black smartphone with a white screen. The background is dark with out-of-focus, circular light spots in shades of yellow, orange, and blue. A semi-transparent dark blue banner is at the bottom, containing a yellow decorative bar and the title text.

1. Server 등록 및 Browser 설정

■ Server 등록(1)

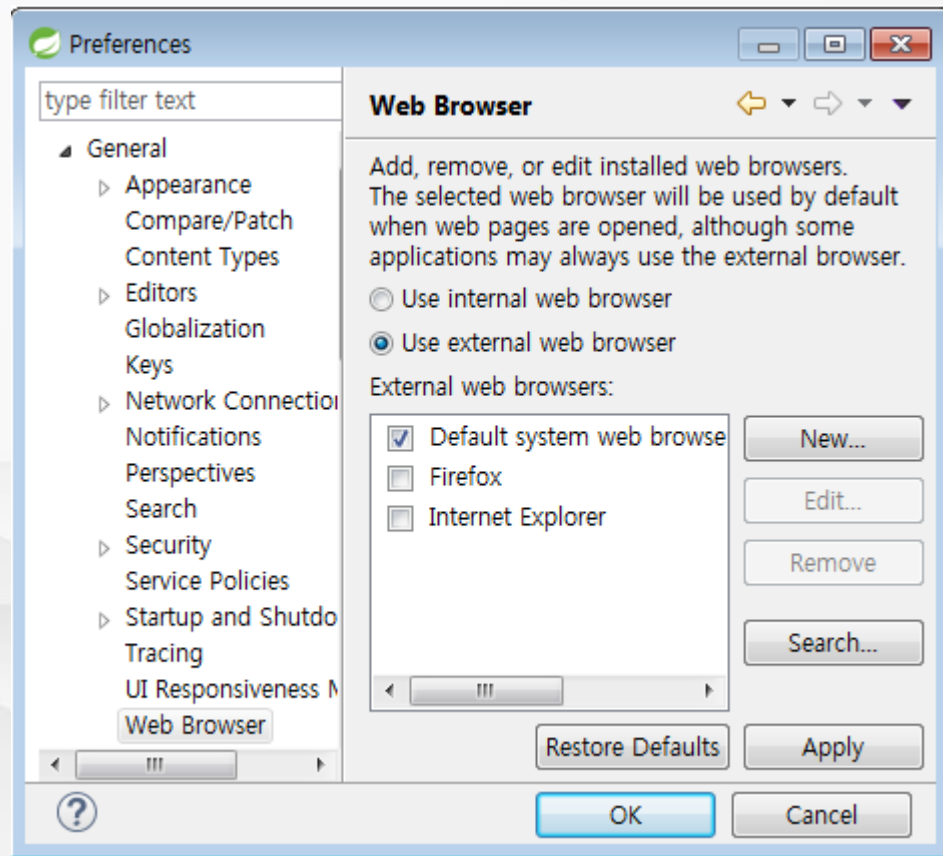


■ Server 등록(2)

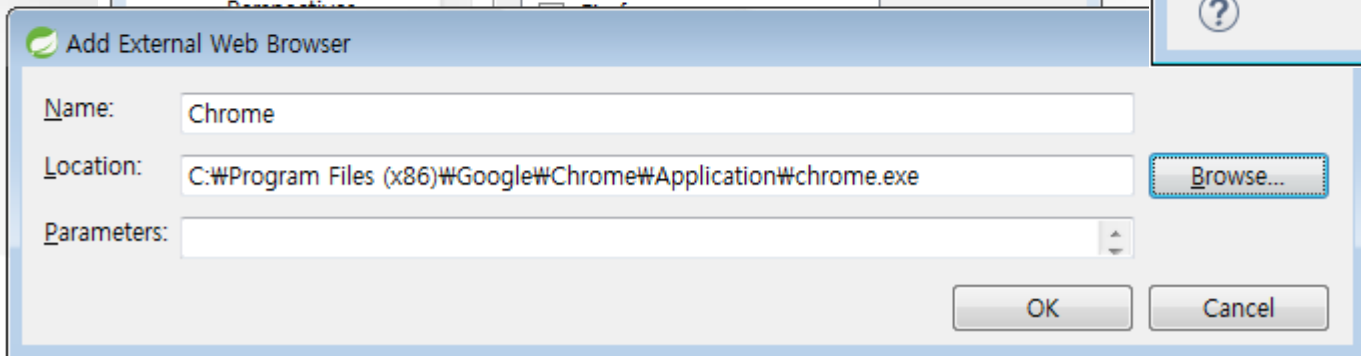
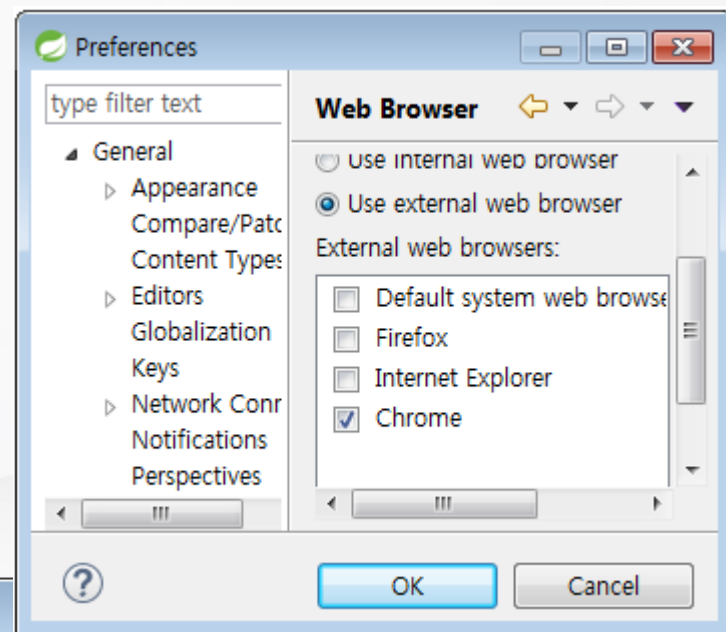


■ Chrome Browser 설정(1)

- ◉ Window -> Preferences -> General -> Web Browser 선택
- ◉ Use external web browser 선택



■ Chrome Browser 설정(2)

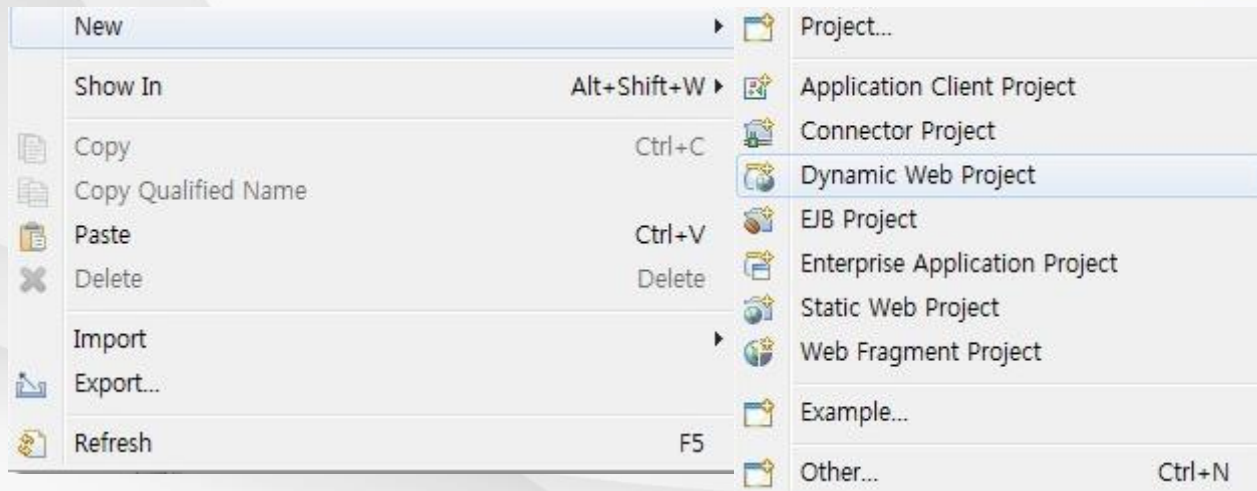




2. Dynamic Web Project

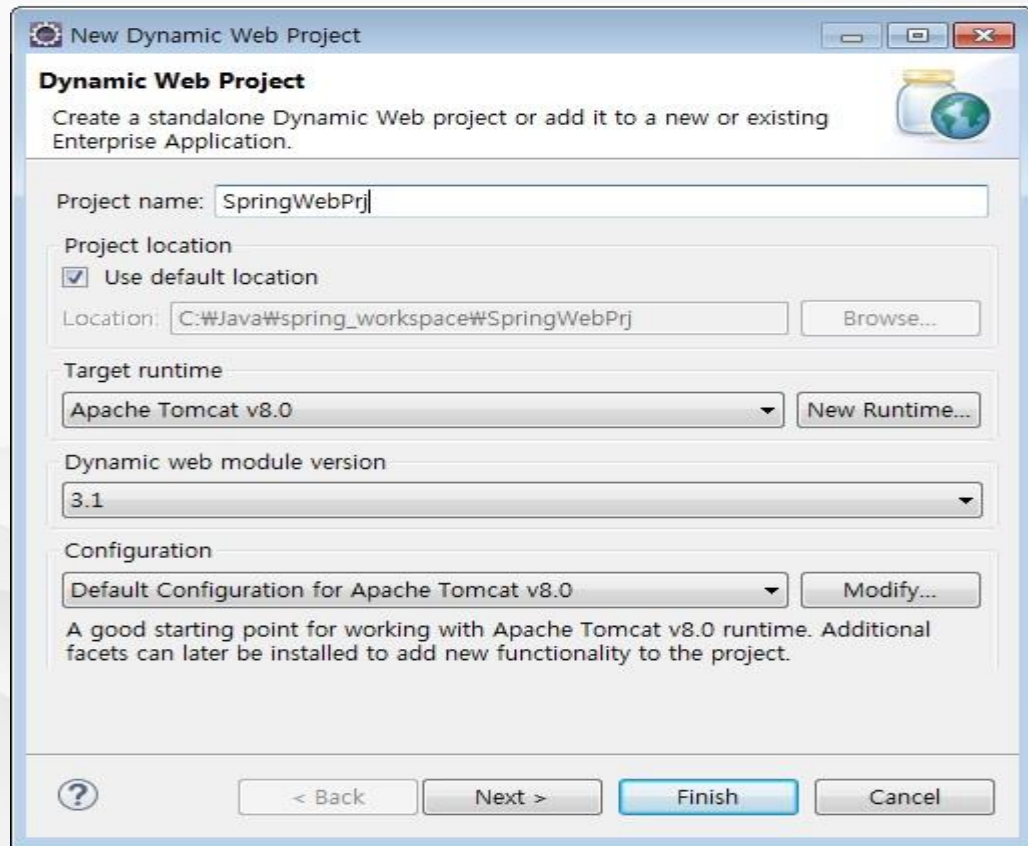
■ Dynamic Web Project 작성(1)

- ◉ New -> Dynamic Web Project 선택



■ Dynamic Web Project 작성(2)

- ◉ Project Name => SpringWebPrj
- ◉ Target runtime => Tomcat 8.0



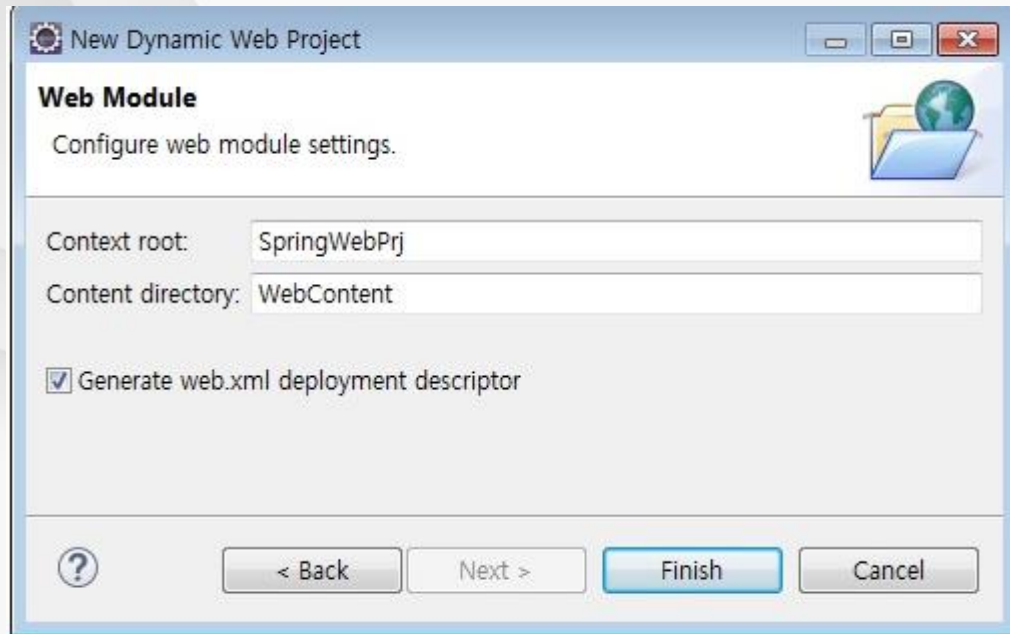
The screenshot shows the 'New Dynamic Web Project' dialog box in the Eclipse IDE. The dialog has a title bar with the text 'New Dynamic Web Project' and standard window controls. The main content area is titled 'Dynamic Web Project' and contains the following fields and options:

- Project name:** A text field containing 'SpringWebPrj'.
- Project location:** A section with a checked checkbox 'Use default location' and a text field 'Location:' containing 'C:\Java\spring_workspace\SpringWebPrj'. A 'Browse...' button is to the right.
- Target runtime:** A dropdown menu showing 'Apache Tomcat v8.0' and a 'New Runtime...' button.
- Dynamic web module version:** A dropdown menu showing '3.1'.
- Configuration:** A dropdown menu showing 'Default Configuration for Apache Tomcat v8.0' and a 'Modify...' button.

At the bottom of the dialog, there is a help icon (question mark) and four buttons: '< Back', 'Next >', 'Finish' (highlighted in blue), and 'Cancel'.

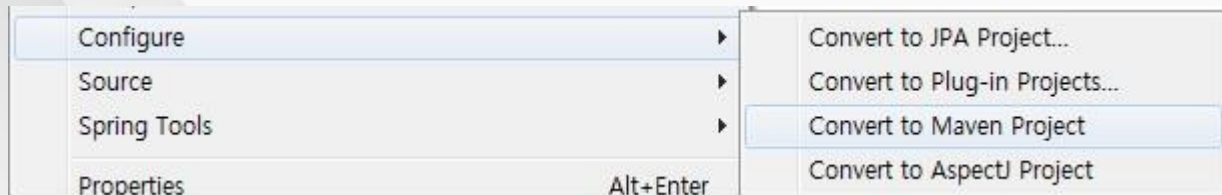
■ Dynamic Web Project 작성(3)

- ◉ web.xml 생성 되도록 선택



■ Dynamic Web Project 작성(4)

◎ Maven Project로 변환



◎ Spring Project Nature 추가



■ 기존 Project의 Source 와 설정파일 복사

- ◉ 기존에 작성한 Project의 pom.xml의 dependency 복사

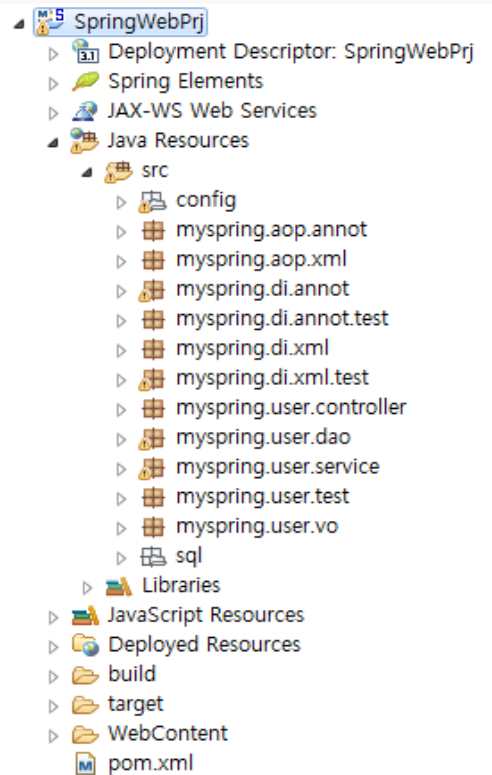
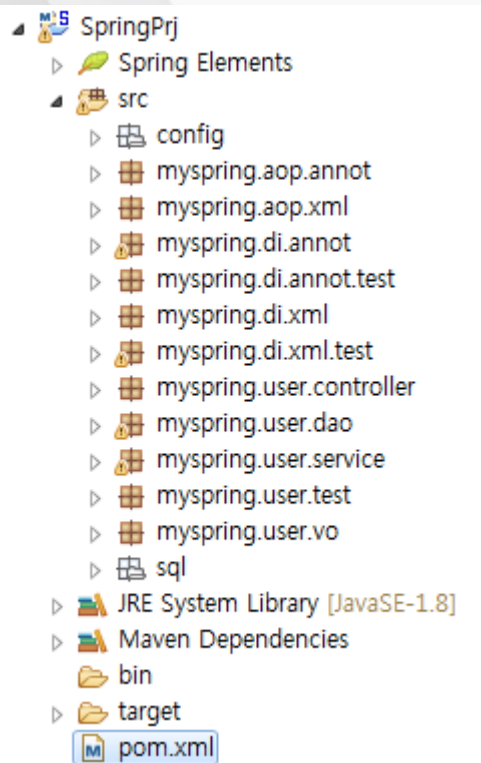
```
SpringPrj/pom.xml
20 <dependencies>
21     <!-- http://mvnrepository.com/artifact/org.springframework/spring-core/3.2.17.RELEASE -->
22     <dependency>
23         <groupId>org.springframework</groupId>
24         <artifactId>spring-core</artifactId>
25         <version>3.2.17.RELEASE</version>
26     </dependency>
27     <!-- https://mvnrepository.com/artifact/junit/junit -->
28     <dependency>
29         <groupId>junit</groupId>
30         <artifactId>junit</artifactId>
31         <version>4.12</version>
32     </dependency>
```



```
SpringWebPrj/pom.xml
28 <dependencies>
29     <!-- http://mvnrepository.com/artifact/org.springframework/spring-core/3.2.17.RELEASE -->
30     <dependency>
31         <groupId>org.springframework</groupId>
32         <artifactId>spring-core</artifactId>
33         <version>3.2.17.RELEASE</version>
34     </dependency>
35     <!-- https://mvnrepository.com/artifact/junit/junit -->
36     <dependency>
37         <groupId>junit</groupId>
38         <artifactId>junit</artifactId>
39         <version>4.12</version>
40     </dependency>
```

■ 기존 Project의 Source 와 설정파일 복사

- 기존에 작성한 Project의 java package 디렉토리와 config, sql 디렉토리 복사



A person's hands are shown holding a smartphone with a white screen. The background is dark with out-of-focus, colorful bokeh lights in shades of yellow, orange, and blue. A semi-transparent dark banner is at the bottom right, containing a yellow decorative element and the section title.

3. Spring MVC 설정

■ Spring mvc 라이브러리 검색 및 설치

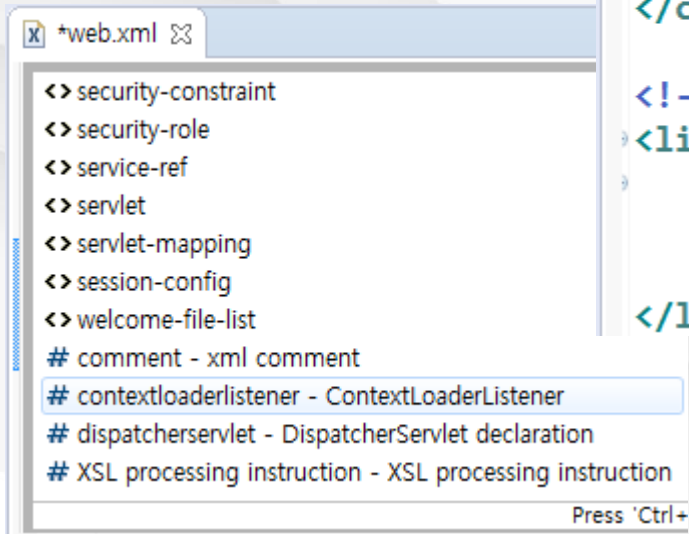
<http://mvnrepository.com>에 접근

spring mvc로 검색

spring mvc 3.2.17 버전을 [pom.xml](#)에 추가

```
<!-- http://mvnrepository.com/artifact/org.springframework/spring-webmvc -->
<dependency>
  <groupId>org.springframework</groupId>
  <artifactId>spring-webmvc</artifactId>
  <version>3.2.17.RELEASE</version>
</dependency>
```

■ web.xml : ContextLoaderListener 클래스 설정



```
*web.xml
```

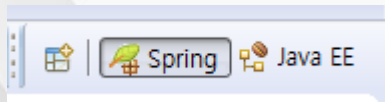
```
<!-- needed for ContextLoaderListener -->
<context-param>
  <param-name>contextConfigLocation</param-name>
  <param-value>classpath:/config/beans.xml</param-value>
</context-param>

<!-- Bootstraps the root web application context before servle
<listener>
  <listener-class>
    org.springframework.web.context.ContextLoaderListener
  </listener-class>
</listener>
```

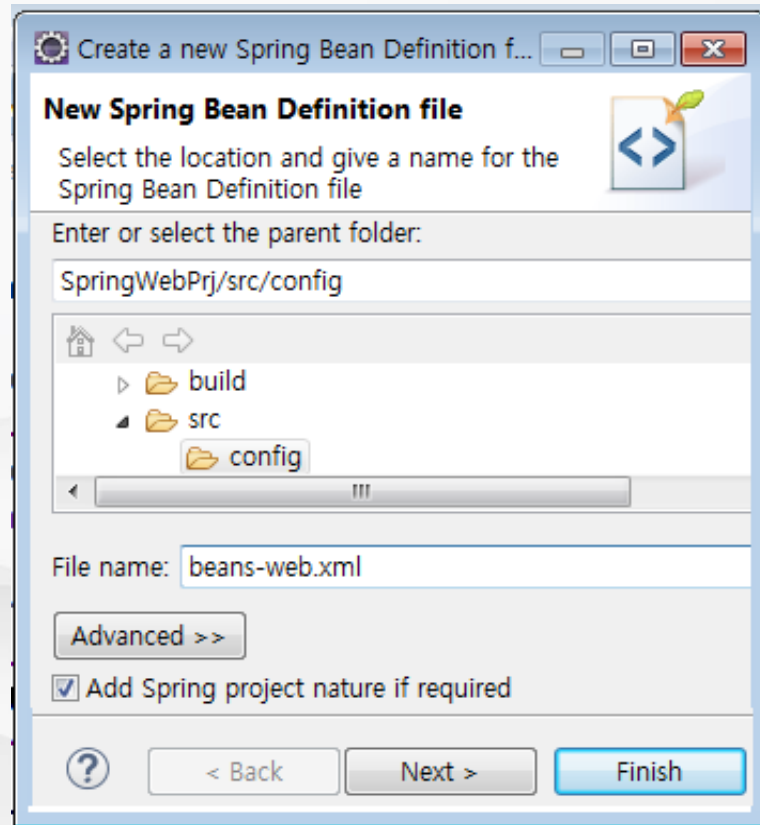
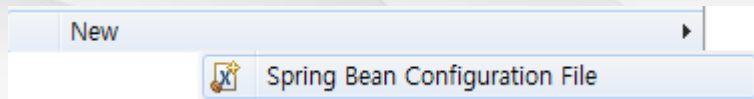


■ Web 환경 설정을 위한 Spring Beans 파일 작성(1)(beans-web.xml)

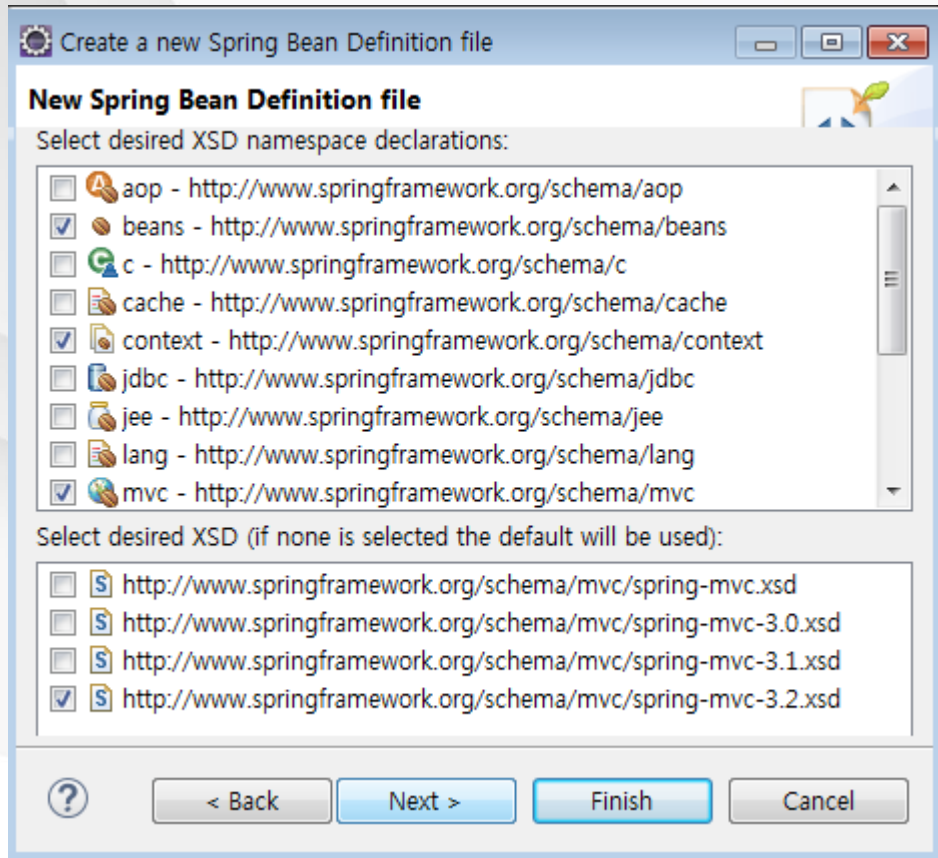
- ◉ Spring Perspective로 전환



- ◉ New → Spring Bean Configuration File



■ Web 환경 설정을 위한 Spring Beans 파일 작성(2)(beans-web.xml)



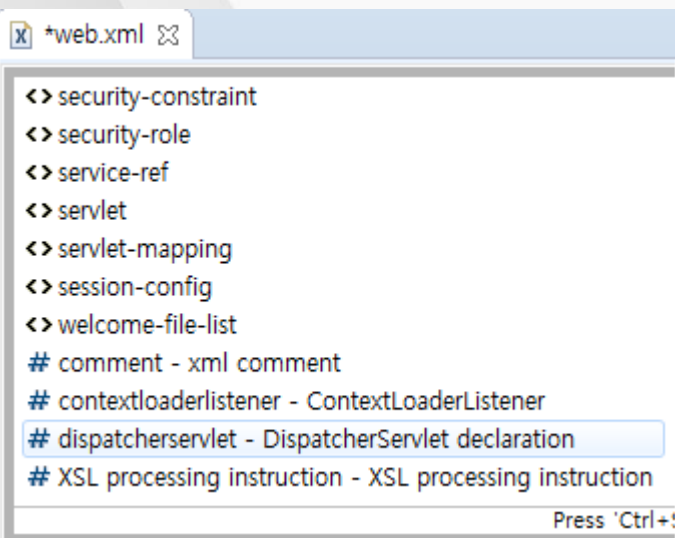
Namespace 선택

- beans
- context
- mvc



```
beans-web.xml
1 <?xml version="1.0" encoding="UTF-8" ?>
2 <beans xmlns="http://www.springframework.org/schema/beans"
3       xmlns:xsi="http://www.springframework.org/schema/xsi"
4       xmlns:context="http://www.springframework.org/schema/context"
5       xmlns:mvc="http://www.springframework.org/schema/mvc"
6       xsi:schemaLocation="http://www.springframework.org/schema/beans
7                           http://www.springframework.org/schema/beans
8                           http://www.springframework.org/schema/context
9                           http://www.springframework.org/schema/context
10                          http://www.springframework.org/schema/mvc
11                          http://www.springframework.org/schema/mvc"
11 </beans>
```

■ web.xml : DispatcherServlet 클래스 설정





학습정리

지금까지 [Spring MVC 환경설정]에 대해서 살펴보았습니다.

Server 등록 및 Browser 설정

- ◉ Tomcat 8.0 Server 등록
- ◉ Chrome Browser 자동 실행 되도록 Eclipse 내에 설정

Dynamic Web Project 작성

- ◉ Dynamic Web Project 작성
- ◉ 기존 Project의 Source와 설정 파일 복사

Spring MVC 설정

- ◉ Spring MVC 설치
- ◉ web.xml에 Spring MVC 관련 내용 설정