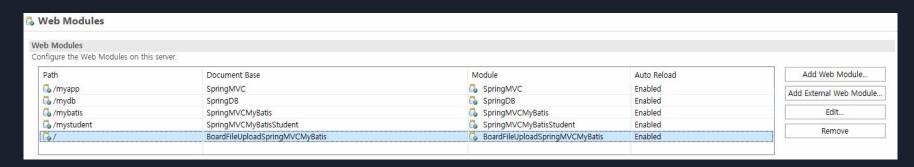
Spring MVC Configuration Quick Guide

1. 프로젝트 생성

Spring legacy Project → Spring MVC Project

Project Facets Version Up \rightarrow Dynamic Web Module (3.1 $\mbox{\em Ξ}\mbox{\em Ξ}\mbox{\em Ξ}\mbox{\em Δ}$), java (1.8)

Tomcat Web Module - Context Path Check



Java Version & Build Path (Zulu..)

2. pom.xml 수정

Version UP

```
cproperties>
    <java-version>1.8</java-version>
    <org.springframework-version>5.1.9.RELEASE</org.springframework-version>
    <org.aspectj-version>1.6.10</org.aspectj-version>
    <org.slf4j-version>1.6.6</org.slf4j-version>
</properties>
<!-- Servlet -->
<!-- https://mvnrepository.com/artifact/javax.servlet/javax.servlet-api -->
<dependency>
   <groupId>javax.servlet
   <artifactId>javax.servlet-api</artifactId>
   <version>3.1.0</version>
   <scope>provided</scope>
                              <plugin>
</dependency>
                                  <groupId>org.apache.maven.plugins
                                  <artifactId>maven-compiler-plugin</artifactId>
                                  <version>3.8.1
                                  <configuration>
                                      <source>1.8</source>
                                      <target>1.8</target>
                                      <compilerArgument>-Xlint:all</compilerArgument>
                                      <showWarnings>true</showWarnings>
                                      <showDeprecation>true</showDeprecation>
                                  </configuration>
                              </plugin>
```

AOP - aspectjweaver (optional)

JSON - jackson 3 가지 (or Gson)

```
<!-- JSON - jackson-core, jackson-databind, jackson-annotations -->
<!-- https://mvnrepository.com/artifact/com.fasterxml.jackson.core/jackson-core -->
<dependency>
  <groupId>com.fasterxml.jackson.core</groupId>
  <artifactId>jackson-core</artifactId>
  <version>2.11.0</version>
</dependency>
<!-- https://mvnrepository.com/artifact/com.fasterxml.jackson.core/jackson-databind -->
<dependency>
  <groupId>com.fasterxml.jackson.core</groupId>
  <artifactId>jackson-databind</artifactId>
  <version>2.11.0</version>
</dependency>
<!-- https://mvnrepository.com/artifact/com.fasterxml.jackson.core/jackson-annotations -->
<dependency>
  <groupId>com.fasterxml.jackson.core</groupId>
  <artifactId>jackson-annotations</artifactId>
  <version>2.11.0</version>
</dependency>
```

JSON - - Gson 을 사용할 경우

```
<!-- https://mvnrepository.com/artifact/com.fasterxml.jackson.core/jackson-core -->
<!-- <dependency> -->
        <groupId>com.fasterxml.jackson.core</groupId> -->
     <artifactId>jackson-core</artifactId> -->
        <version>2.11.3
<!-- </dependency> -->
<!-- https://mvnrepository.com/artifact/com.fasterxml.jackson.core/jackson-databind -->
<!-- <dependency> -->
        <groupId>com.fasterxml.jackson.core</groupId> -->
        <artifactId>jackson-databind</artifactId> -->
        <version>2.11.3
<!-- </dependency> -->
<!-- https://mvnrepository.com/artifact/com.fasterxml.jackson.core/jackson-annotations -->
<!-- <dependency> -->
     <groupId>com.fasterxml.jackson.core</groupId> -->
     <artifactId>jackson-annotations</artifactId> -->
        <version>2.11.3
<!-- </dependency> -->
<dependency>
   <groupId>com.google.code.gson/groupId>
   <artifactId>gson</artifactId>
   <version>2.8.6
</dependency>
```

spring-jdbc & connection pool - DataSource

Mybatis (Mybatis 사용할 경우)

File Upload (사용할 경우)

```
<!-- https://mvnrepository.com/artifact/commons-fileupload/commons-fileupload -->
<dependency>
  <groupId>commons-fileupload</groupId>
  <artifactId>commons-fileupload</artifactId>
  <version>1.4</version>
</dependency>
<!-- https://mvnrepository.com/artifact/commons-io/commons-io -->
<dependency>
  <groupId>commons-io</groupId>
  <artifactId>commons-io</artifactId>
  <version>2.8.0
</dependency>
```

4. DB 연결 설정 파일 작성

jdbc.properties → src/main/resources/ database 폴더 생성 후 작성

jdbc.driverClassName=com.mysql.cj.jdbc.Driver jdbc.url=jdbc:mysql://localhost:3306/my_db?serverTimezone=Asia/Seoul jdbc.username=scsa jdbc.password=1234

5. root-context.xml #1

DB 연결 설정, Connection Pool (Datasource)

5. root-context.xml #2

mybatis

6. servlet-context.xml #1

default

6. servlet-context.xml #2

file upload & interceptor

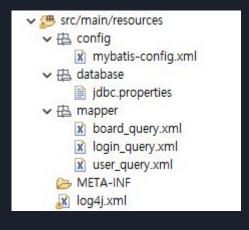
7. web.xml

한글 처리

```
<!-- 한글 처리 -->
<filter>
      <filter-name>encodingFilter</filter-name>
      <filter-class>org.springframework.web.filter.CharacterEncodingFilter
      </filter-class>
      <init-param>
            <param-name>encoding</param-name>
            <param-value>UTF-8</param-value>
      </init-param>
</filter>
<filter-mapping>
      <filter-name>encodingFilter</filter-name>
      <url>pattern>/*</url-pattern>
</filter-mapping>
```

8. mybatis config & mapper xml

src/main/resources/



9. Component Annotations

@Controller

@Service

@Repository(spring-jdbc, class ℍ) 또는 @Mapper (with Mybatis , interface ℍ)

10. Transaction 을 적용할 경우

root-context.xml

servlet-context.xml

```
<context:component-scan base-package="com.mycom.myboard.controller" />
```

component-scan 분리 또는 tx 설정을 servlet-context.xml 에!!

11. Aspect

root-context.xml

```
<context:component-scan
   base-package="com.mycom.myboard.aspect"></context:component-scan>
<aop:aspectj-autoproxy/>
```

aspectj 및 Aspect Class 가 포함된 package 만 component-scan 추가

12. GlobalException

servlet-context.xml

```
<context:component-scan
base-package="com.mycom.myboard.controller, com.mycom.myboard.common, com.mycom.myboard.config" />
```

GlobalException 이 포함된 package 추가

13. log4j.xml

rolling appender

일자별 폴더 생성 및 로그 파일 생성 File 경로 주의

Mybatis 사용할 경우 level 조정

14. jUnit 4 사용할 경우

pom.xml

```
<!-- Test -->
<!-- https://mvnrepository.com/artifact/junit/junit -->
<dependency>
   <groupId>junit</groupId>
   <artifactId>junit</artifactId>
   <version>4.13.1
   <scope>test</scope>
</dependency>
<!-- https://mvnrepository.com/artifact/org.springframework/spring-test -->
<dependency>
   <groupId>org.springframework
   <artifactId>spring-test</artifactId>
   <version>${org.springframework-version}</version>
   <scope>test</scope>
</dependency>
<!-- https://mvnrepository.com/artifact/mysql/mysql-connector-java -->
<dependency>
   <groupId>mysql</groupId>
   <artifactId>mysql-connector-java</artifactId>
   <version>8.0.22
</dependency>
```

jUnit version up, spring-test, jdbc driver (for jUnit Test ← not using Tomcat)