Maven

안화수

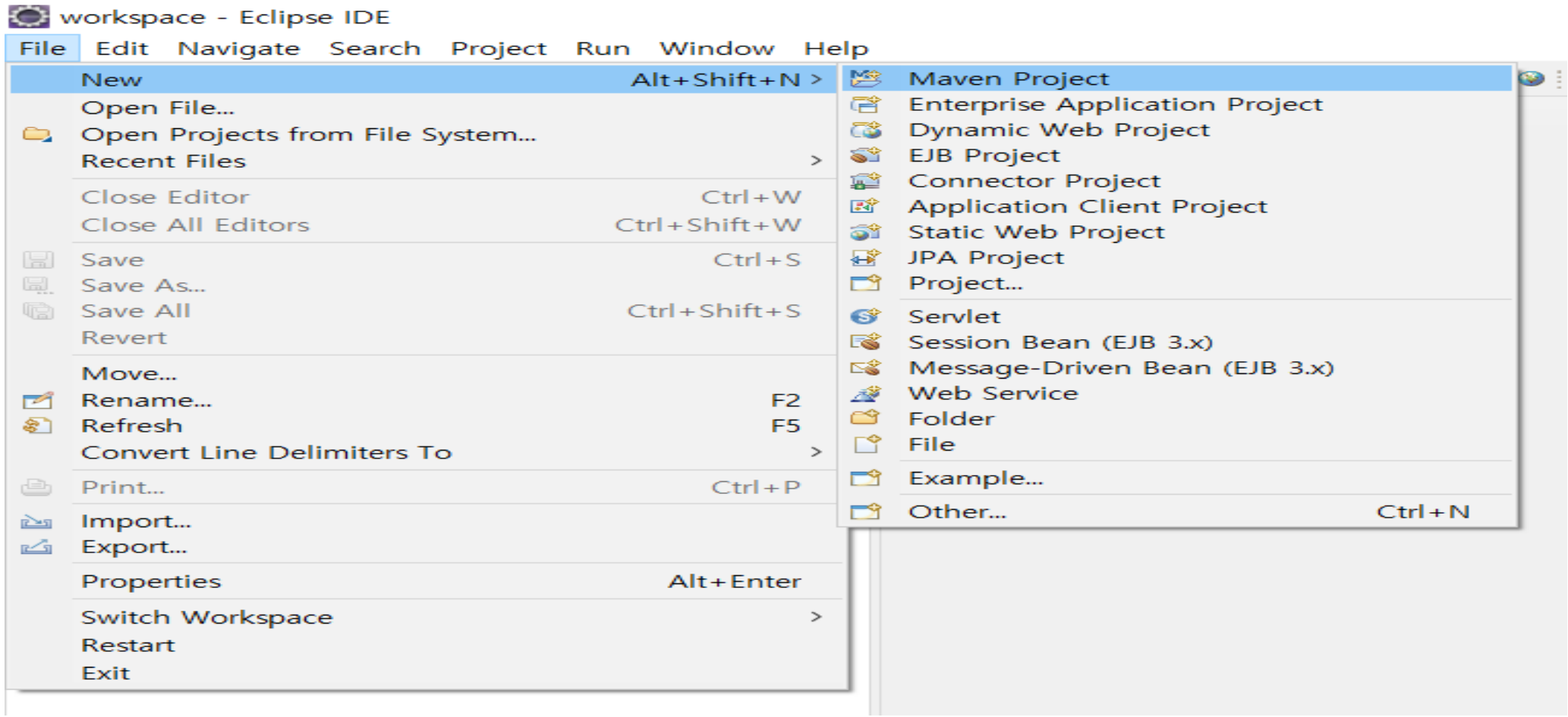
Library 관리자

- maven
  - maven project
  - spring project
  - spring boot project

- gradle
  - android project
  - spring boot project

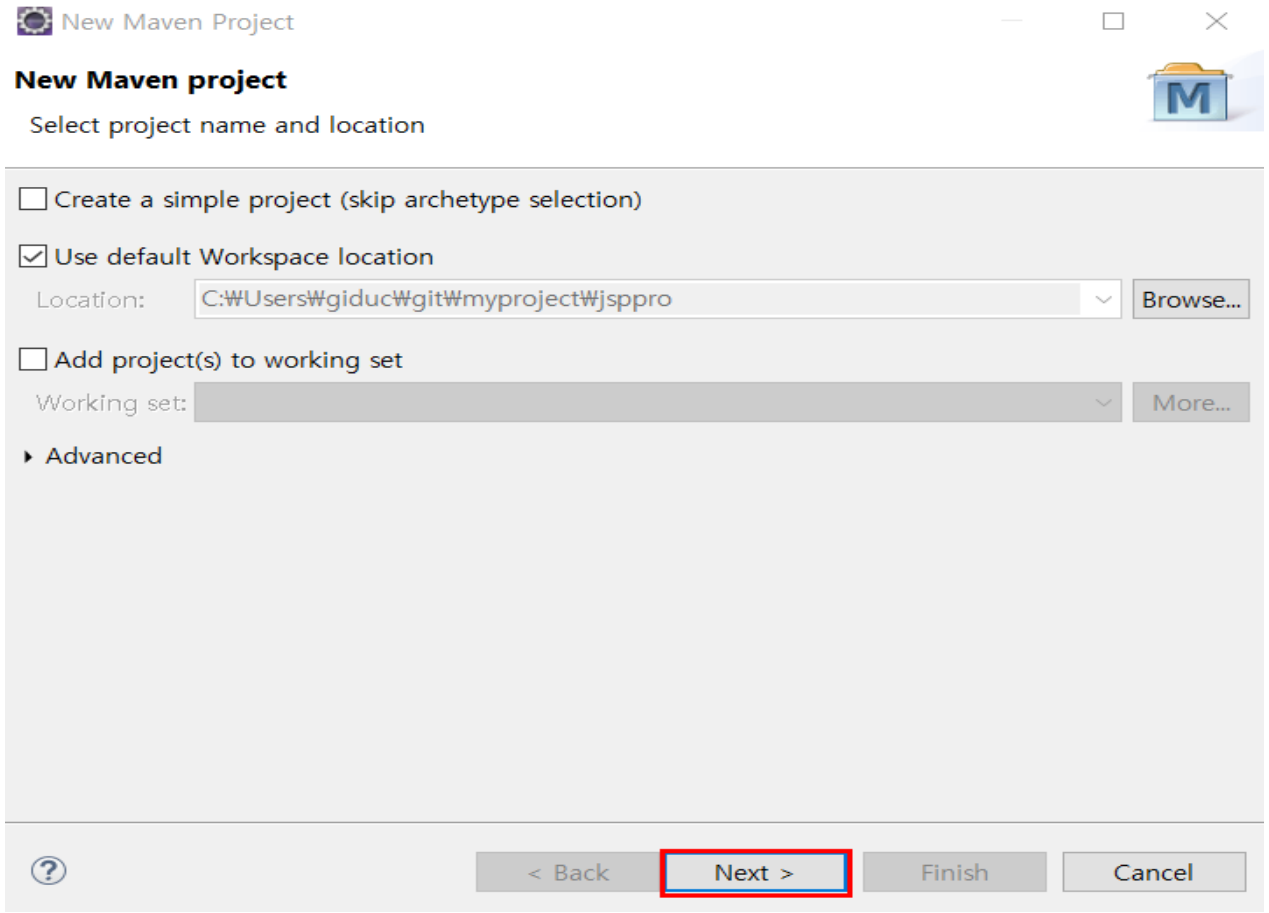
Maven Project 생성

- maven project



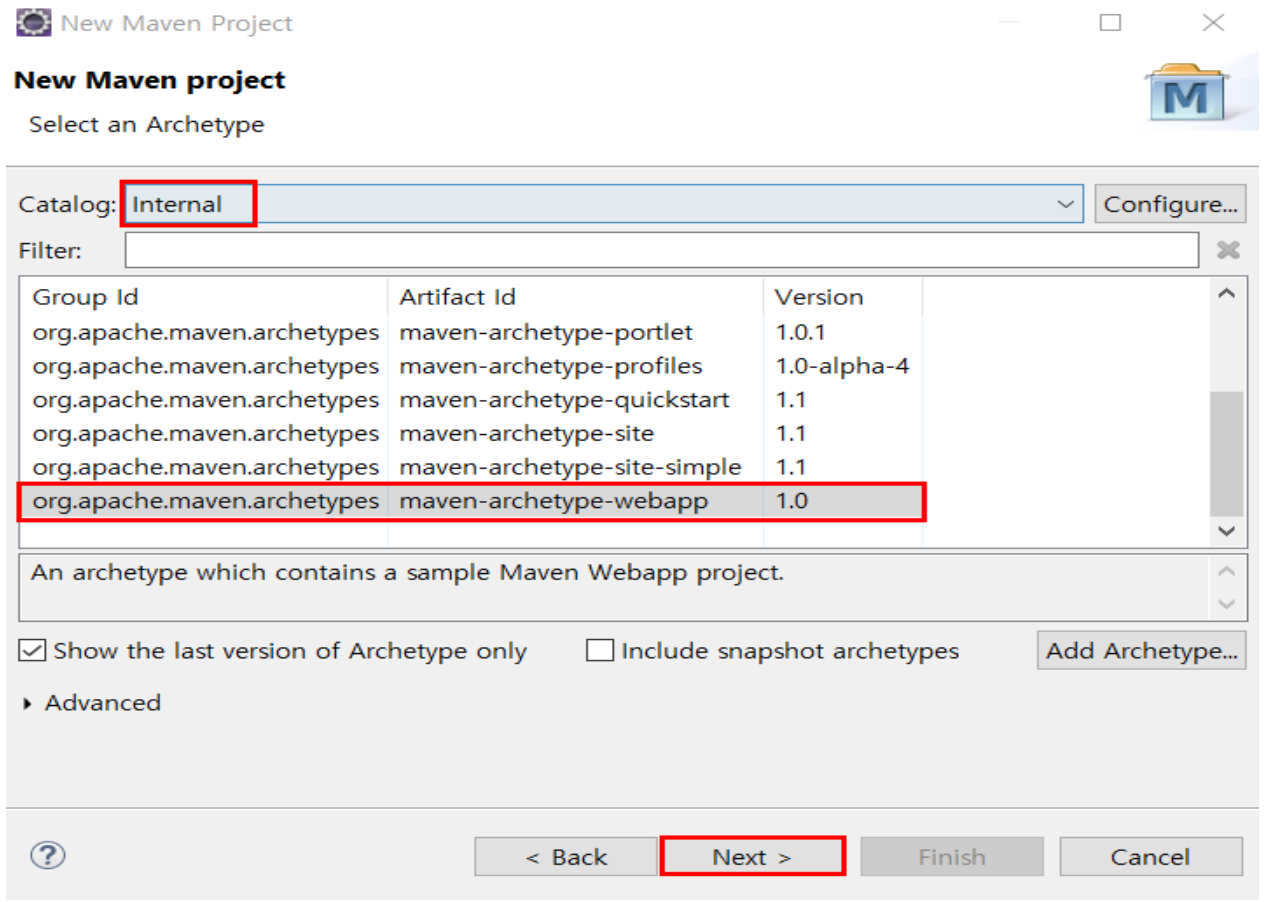
Maven Project 생성

- maven project



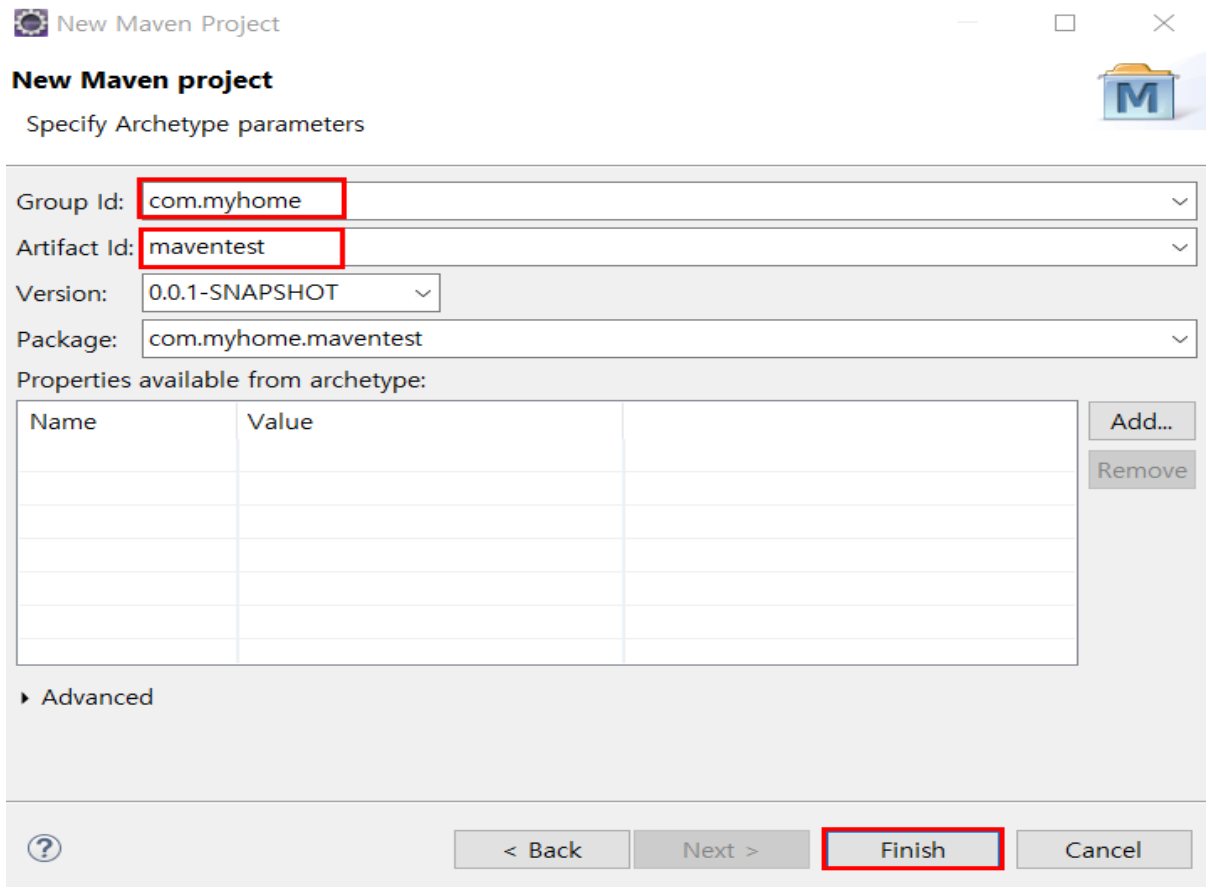
Maven Project 생성

- maven project



Maven Project 생성

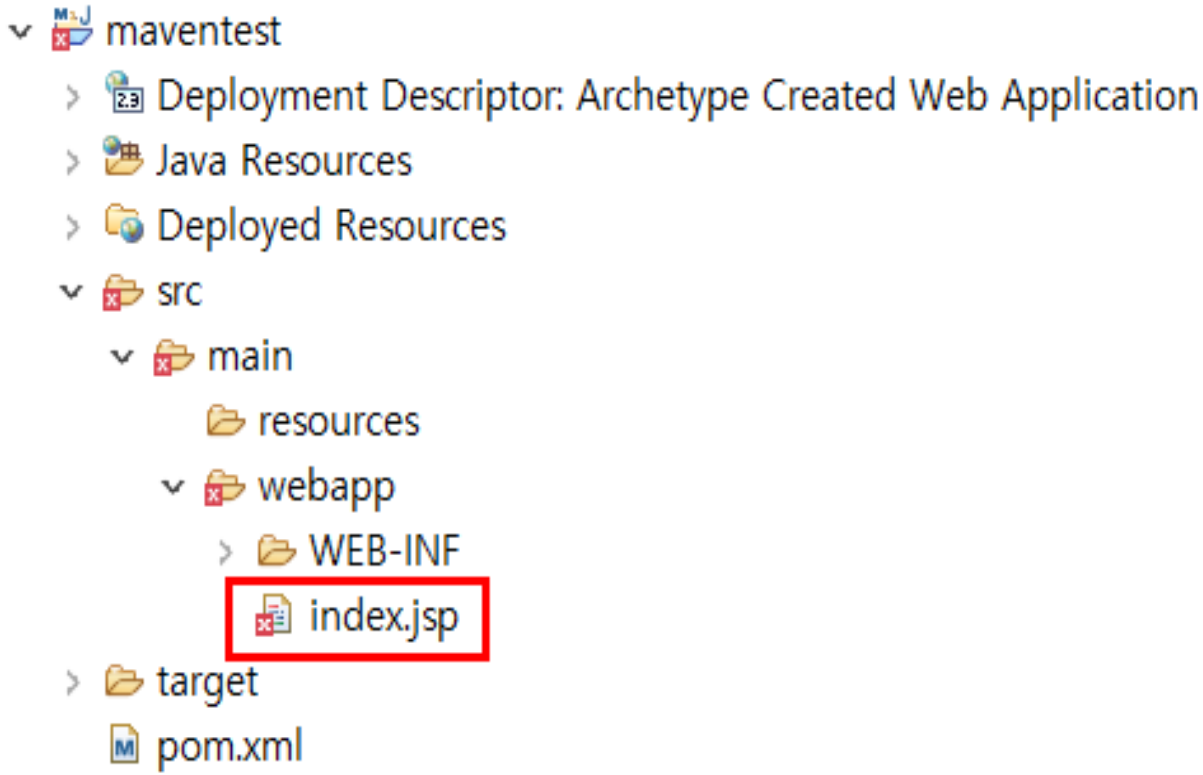
- maven project



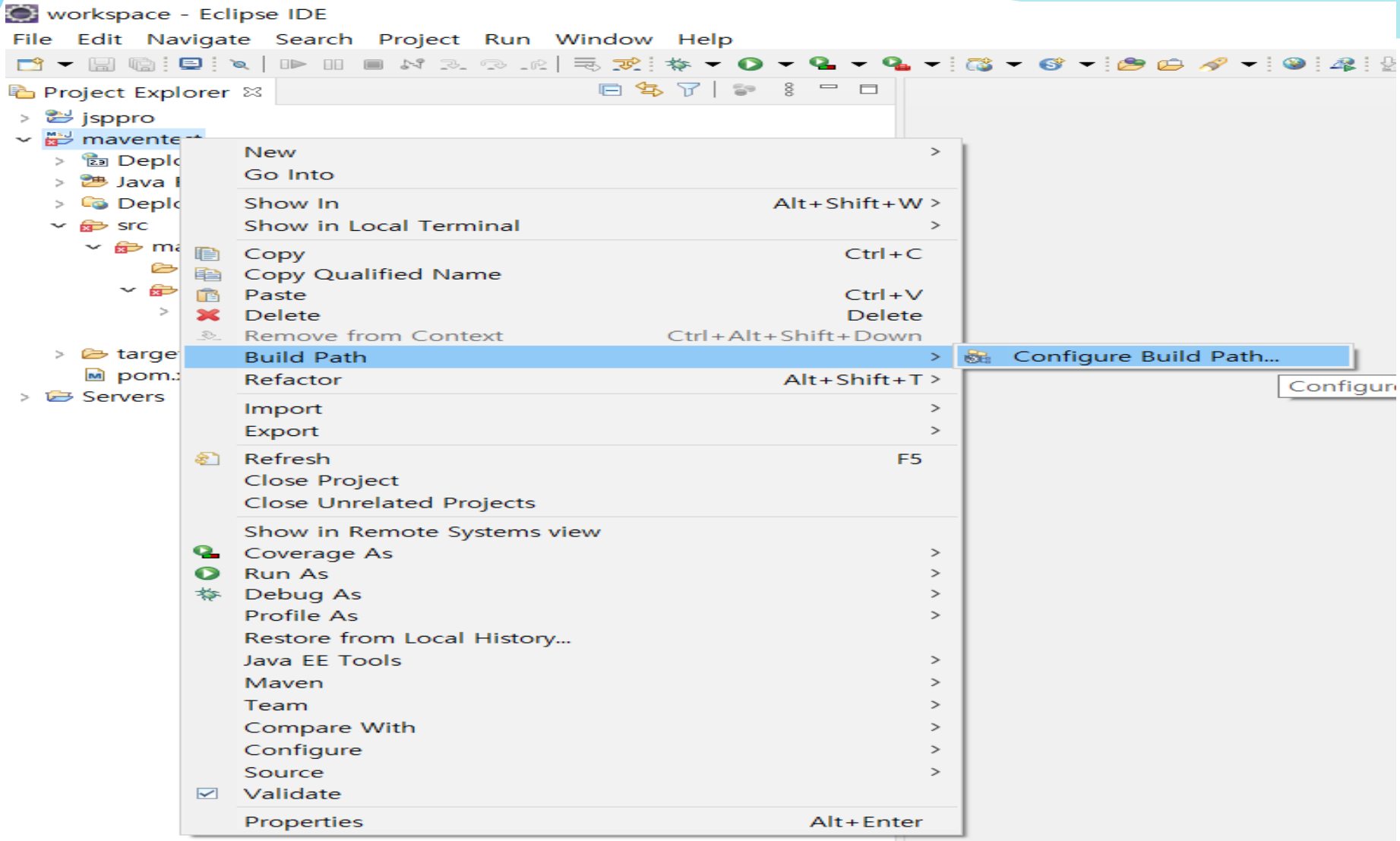
Maven Project 생성

- maven project 에러발생

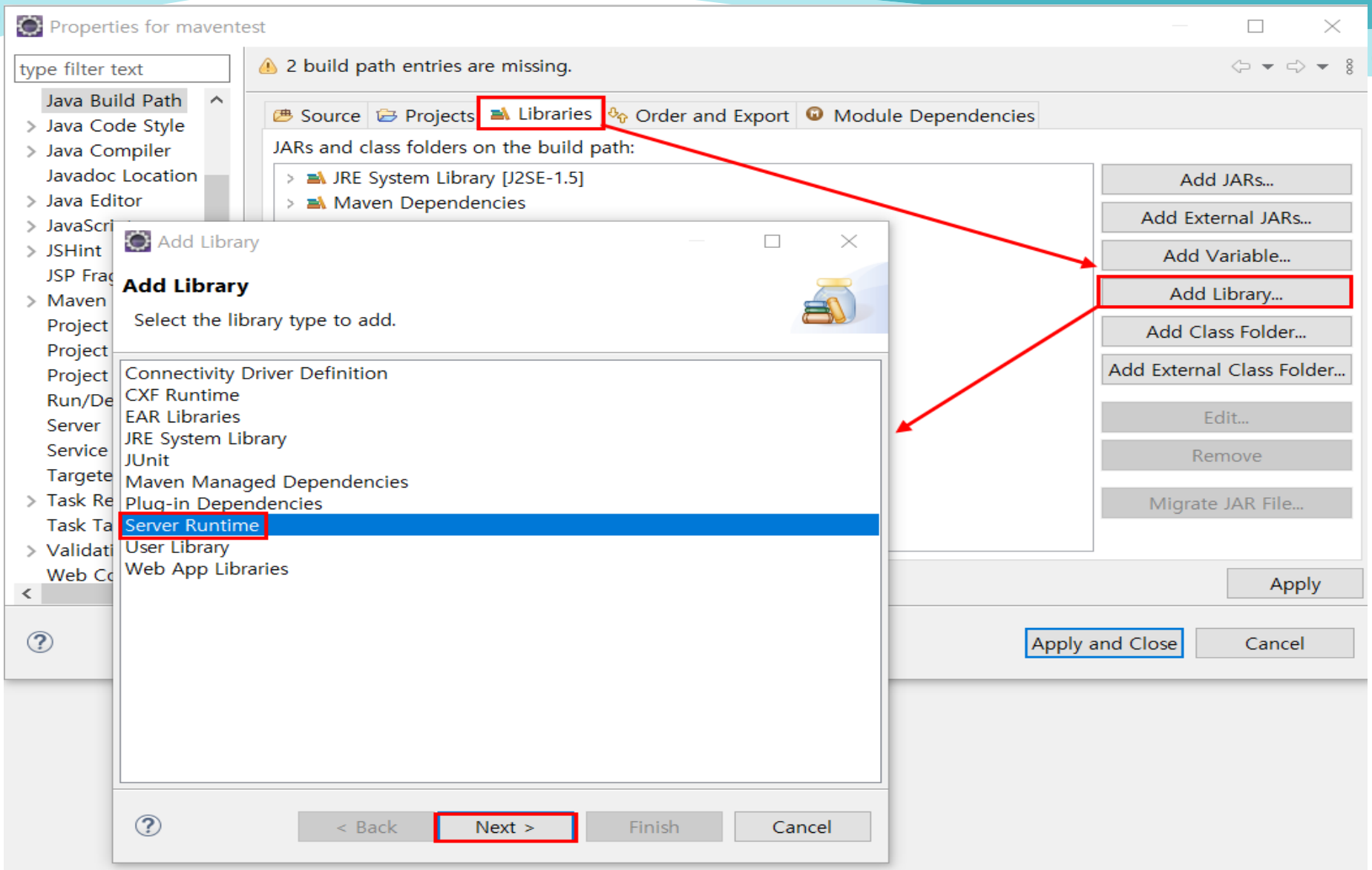
maven 프로젝트 생성후 index.jsp 파일에 에러가 발생하면, Apache Tomcat Library 를 추가하면 에러가 사라진다.



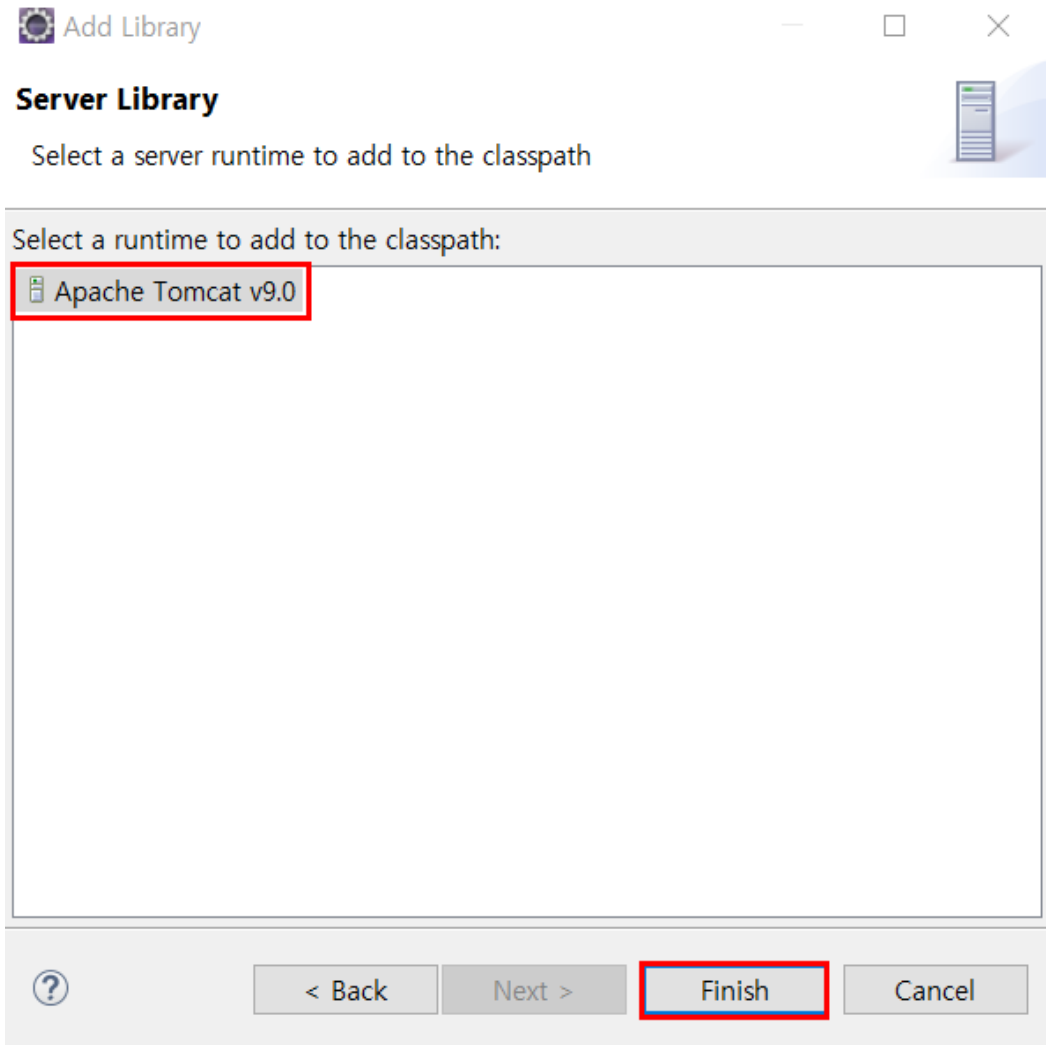
Apache Tomcat Library 추가



Apache Tomcat Library 추가



Apache Tomcat Library 추가



Maven Project 구조

maventest - src - main - java <--- Controller, Service, DTO, DAO

- resources <--- MyBatis의 환경설정 파일, SQL문 파일(*.xml)

- webapp <--- view페이지

-WEB-INF - web.xml <--- project의 환경설정 파일

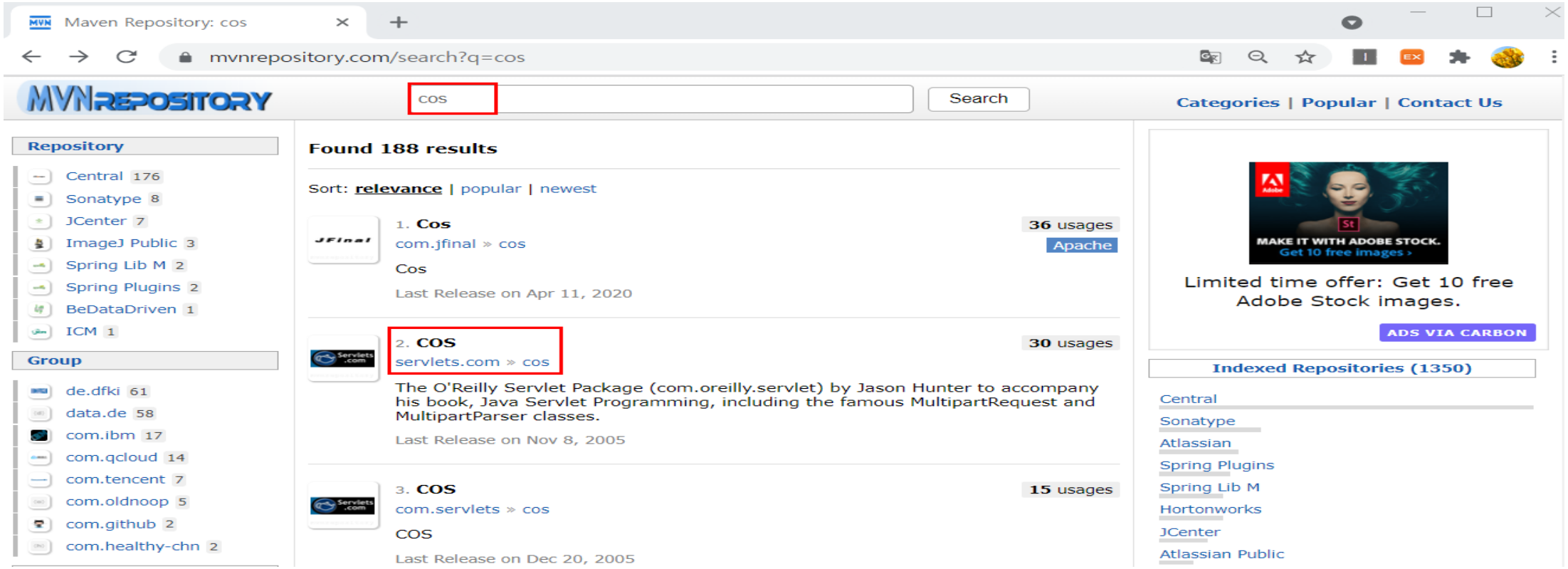
-

- pom.xml (Maven 환경설정 파일)

의존 라이브러리 검색

- 의존 라이브러리 검색 (cos 검색)

http://mvnrepository.com



의존 라이브러리 검색

- 의존 라이브러리 검색 (cos 검색)

Home » servlets.com » cos

cos

The O'Reilly Servlet Package (com.oreilly.servlet) by Jason Hunter to accompany his book, Java Servlet Programming, including the famous MultipartRequest and MultipartParser classes.

Tags	servlet
Used By	30 artifacts

Note: This artifact was moved to:

com.servlets » cos

Central (1) | Spring Plugins (1)

Version	Repository	Usages	Date
05Nov2002	Central	30	Nov, 2005

의존 라이브러리 검색

- 의존 라이브러리 검색 (cos 검색)

Home » servlets.com » cos » 05Nov2002

COS » 05Nov2002

The O'Reilly Servlet Package (com.oreilly.servlet) by Jason Hunter to accompany his book, Java Servlet Programming, including the famous MultipartRequest and MultipartParser classes.

Organization	servlets.com
HomePage	http://www.servlets.com/
Date	(Nov 08, 2005)
Files	pom (768 bytes) jar (55 KB) View All
Repositories	Central
Used By	30 artifacts

Maven | Gradle | Gradle (Short) | Gradle (Kotlin) | SBT | Ivy | Grape | Leiningen | Buildr

```
<!-- https://mvnrepository.com/artifact/servlets.com/cos -->
<dependency>
    <groupId>servlets.com</groupId>
    <artifactId>cos</artifactId>
    <version>05Nov2002</version>
</dependency>
```

Include comment with link to declaration

Maven 환경설정 파일 : pom.xml

- pom.xml : cos 추가

```
<dependencies>

        <dependency>
                <groupId>servlets.com</groupId>
                <artifactId>cos</artifactId>
                <version>05Nov2002</version>
        </dependency>

</dependencies>
```

Maven 환경설정 파일 : pom.xml

- pom.xml : oracle 추가

```
<dependencies>

    <dependency>
        <groupId>com.oracle.database.jdbc</groupId>
        <artifactId>ojdbc8</artifactId>
        <version>21.5.0.0</version>
    </dependency>

</dependencies>
```

Maven 환경설정 파일 : pom.xml

- pom.xml : mysql 추가

```
<dependencies>

        <dependency>
                <groupId>com.mysql</groupId>
                <artifactId>mysql-connector-j</artifactId>
                <version>8.0.33</version>
        </dependency>

</dependencies>
```

Maven 환경설정 파일 : pom.xml

- pom.xml : mybatis 추가

```
<dependencies>

        <dependency>
                <groupId>org.mybatis</groupId>
                <artifactId>mybatis</artifactId>
                <version>3.5.6</version>
        </dependency>

</dependencies>
```

Maven 환경설정 파일 : pom.xml

- pom.xml : jstl 추가 – Apache Tomcat 9

```
<dependencies>

        <dependency>
                <groupId>javax.servlet</groupId>
                <artifactId>jstl</artifactId>
                <version>1.2</version>
        </dependency>

        <dependency>
                <groupId>org.glassfish.web</groupId>
                <artifactId>jstl-impl</artifactId>
                <version>1.2</version>
        </dependency>

</dependencies>
```

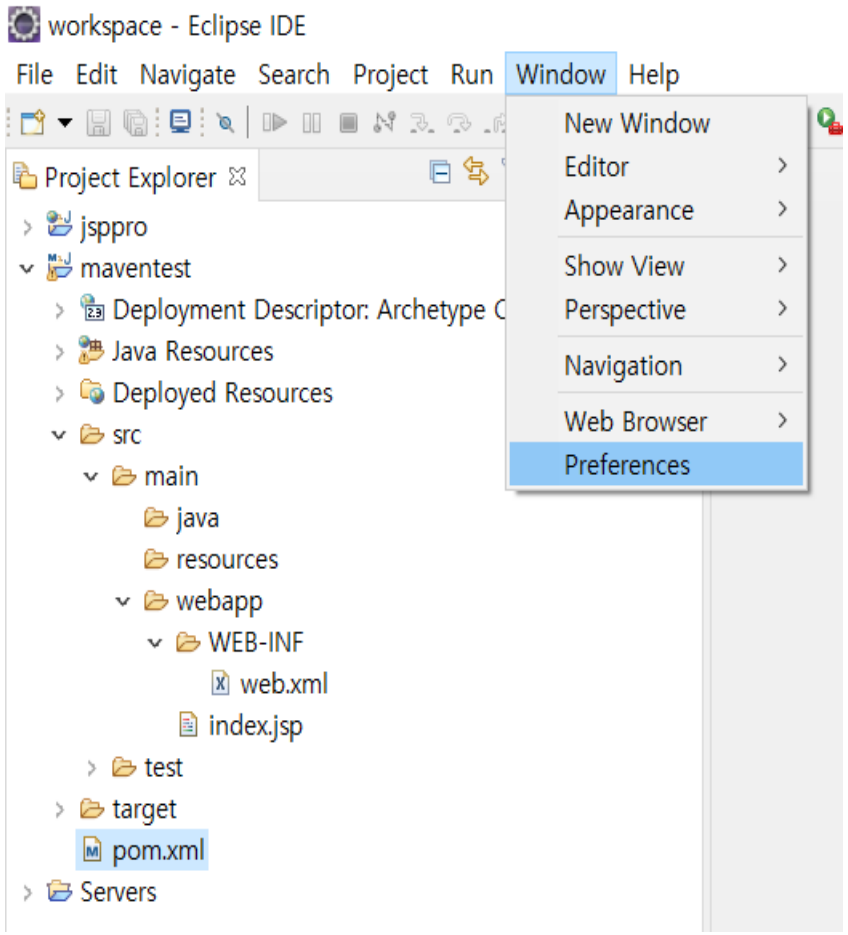
Maven 환경설정 파일 : pom.xml

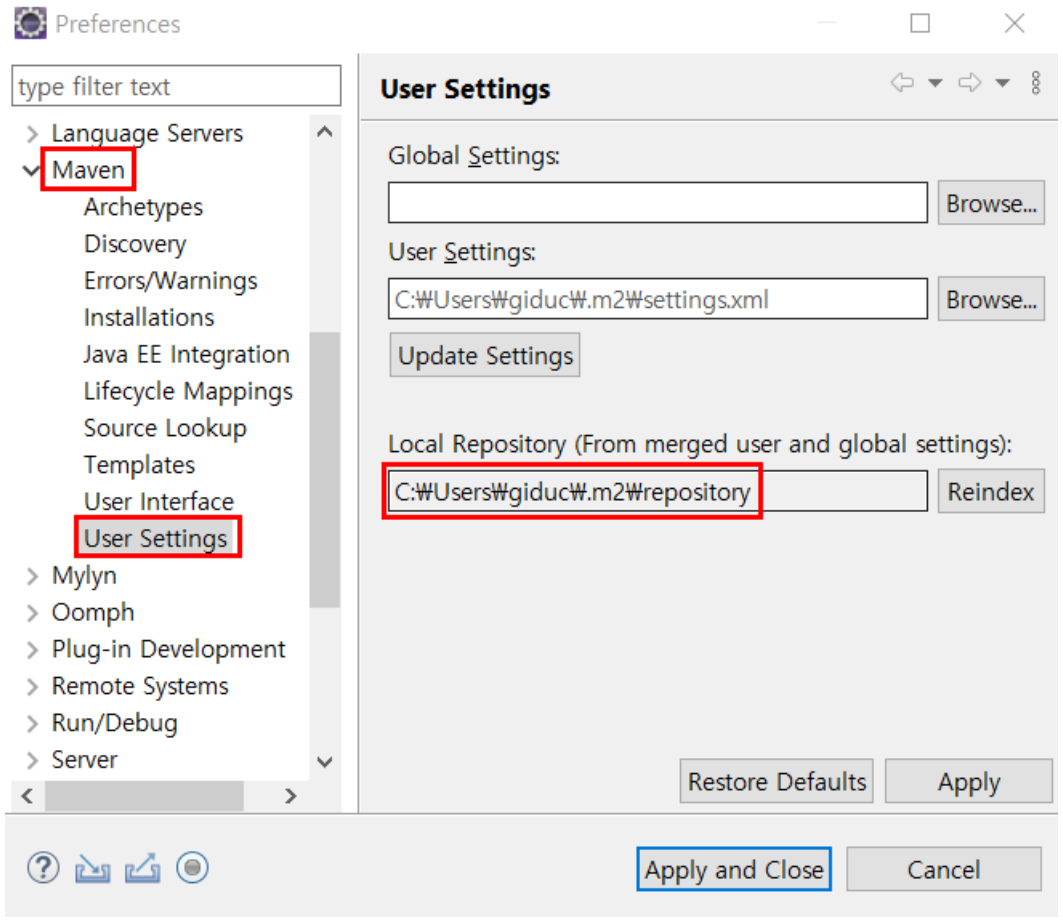
- pom.xml : jakarta jstl 추가 – Apache Tomcat10.1

```
<dependencies>

        <dependency>
                <groupId>jakarta.servlet.jsp.jstl</groupId>
                <artifactId>jakarta.servlet.jsp.jstl-api</artifactId>
                <version>3.0.0</version>
        </dependency>
        <dependency>
                <groupId>org.glassfish.web</groupId>
                <artifactId>jakarta.servlet.jsp.jstl</artifactId>
                <version>3.0.1</version>
        </dependency>

</dependencies>
```

Local Repository

- 로컬 저장소 위치 : C:₩Users₩계정₩.m2₩repository





DB연동

- 데이터베이스 연동 테스트

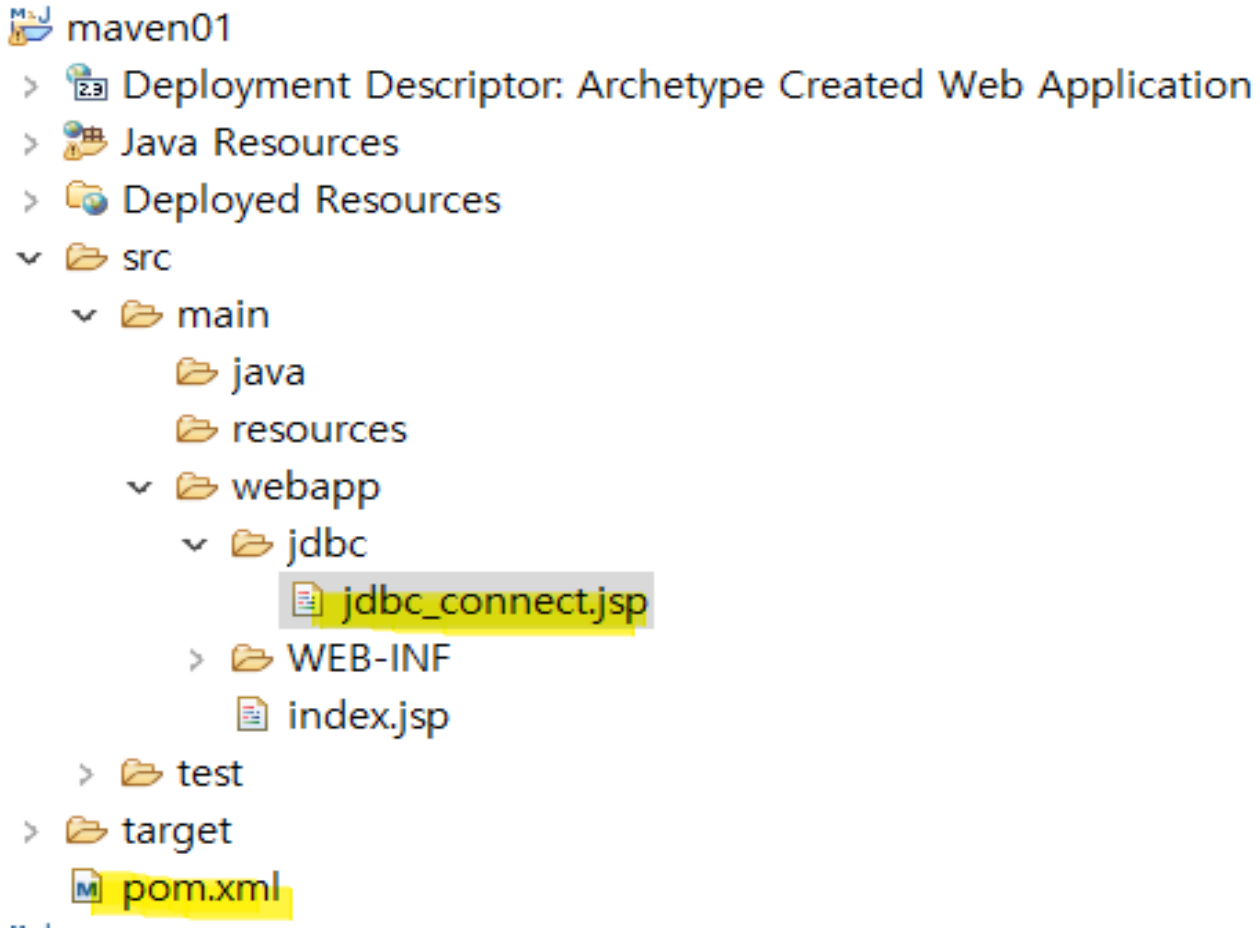
1. maven01 프로젝트 생성

2. maven의 환경 설정 파일인 pom.xml 파일에 의존 라이브러리 추가
   oracle, mysql 라이브러리 추가

3. DB연동 테스트 파일로 테스트 실행

DB연동

1. maven01 프로젝트 생성



DB연동

2. pom.xml 파일에 의존 라이브러리 추가

```
<dependencies>

	<dependency>
		<groupId>com.oracle.database.jdbc</groupId>
		<artifactId>ojdbc8</artifactId>
		<version>21.5.0.0</version>
	</dependency>

	<dependency>
		<groupId>com.mysql</groupId>
		<artifactId>mysql-connector-j</artifactId>
		<version>8.0.33</version>
	</dependency>

</dependencies>
```

DB연동

3. DB연동 테스트 : jdbc_connect.jsp (1/2)

```
<%@ page contentType="text/html; charset=utf-8"%>
<%@ page import="java.sql.*"%>
<%
	Connection con = null;
try {
	/*************** Oracle 연결 설정 ***************************/
	String driver = "oracle.jdbc.driver.OracleDriver";
	String url = "jdbc:oracle:thin:@localhost:1521:xe";
	String user = "scott";
	String password = "tiger";

	/***************** My-SQL 연결 설정 ***************************/
//	 String driver = "com.mysql.cj.jdbc.Driver";
//	 String url = "jdbc:mysql://localhost:3306/jsptest";
//	 String user = "jspid";
//	 String password = "jsppass";
```

DB연동

3. DB연동 테스트 : jdbc_connect.jsp (2/2)

```
            Class.forName(driver);
            con = DriverManager.getConnection(url, user, password);

            out.println("연결되었습니다.");

} catch (Exception e) {
            e.printStackTrace();
} finally {
            try{
                        if(con != null)  con.close();
            }catch(Exception e){
                        e.printStackTrace();
            }
}
%>
```