



Maven

안화수

# Library 관리자

## ❖ maven

maven project

spring project

spring boot project

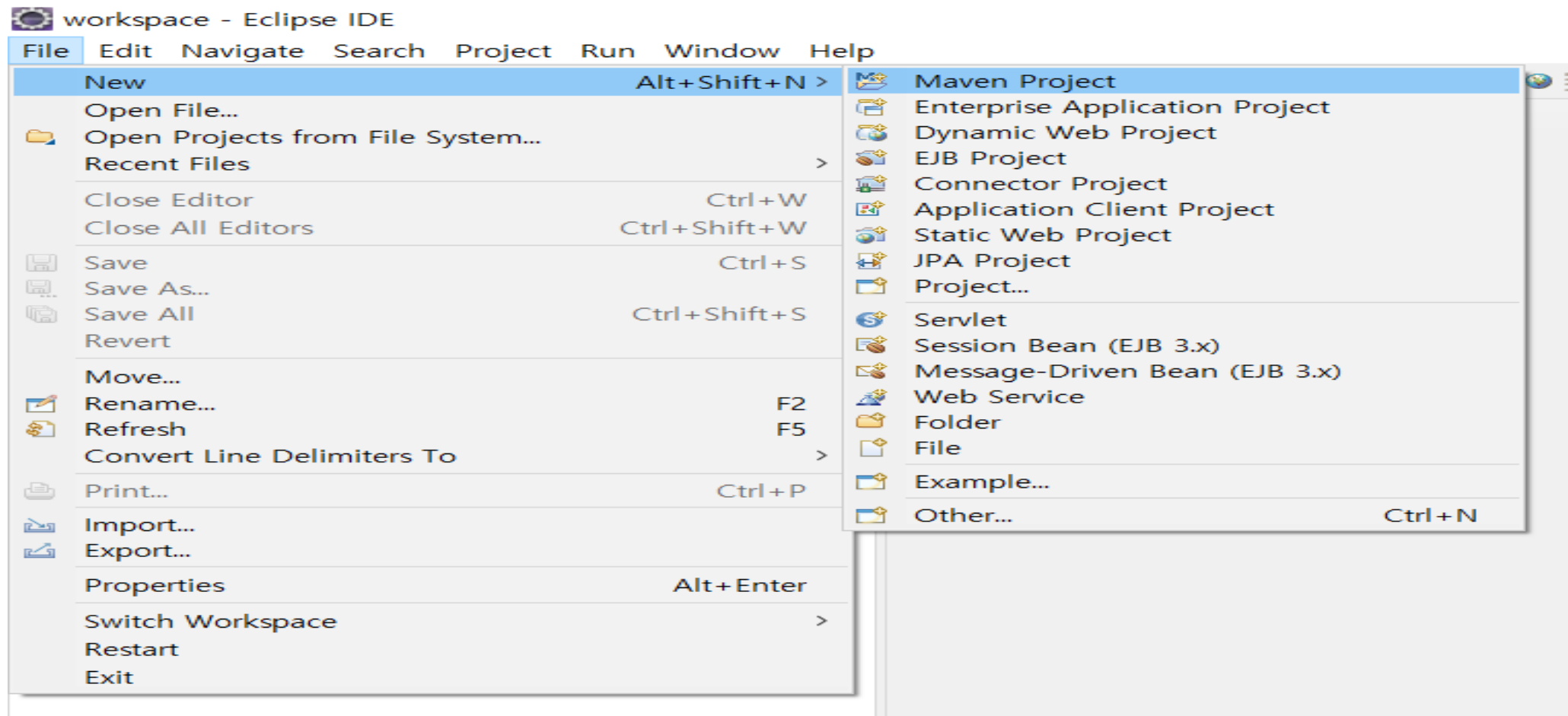
## ❖ gradle

android project

spring boot project

# Maven Project 생성

## ❖ maven project



# Maven Project 생성

## ❖ maven project

New Maven Project

**New Maven project**

Select project name and location

☐ Create a simple project (skip archetype selection)

☒ Use default Workspace location

Location:

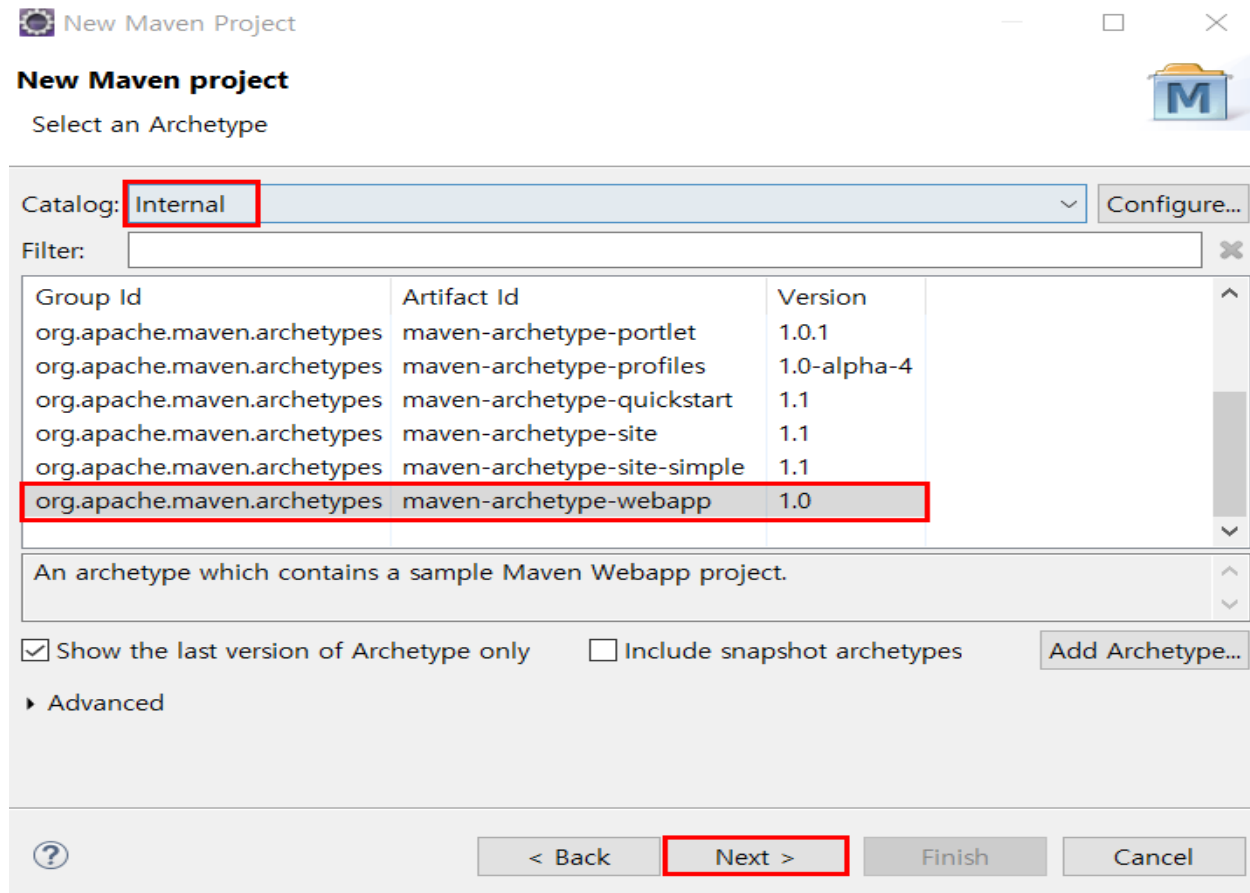
☐ Add project(s) to working set

Working set:

▶ Advanced

# Maven Project 생성

## ❖ maven project



# Maven Project 생성

## ❖ maven project

New Maven Project

**New Maven project**

Specify Archetype parameters

Group Id:

Artifact Id:

Version:

Package:

Properties available from archetype:

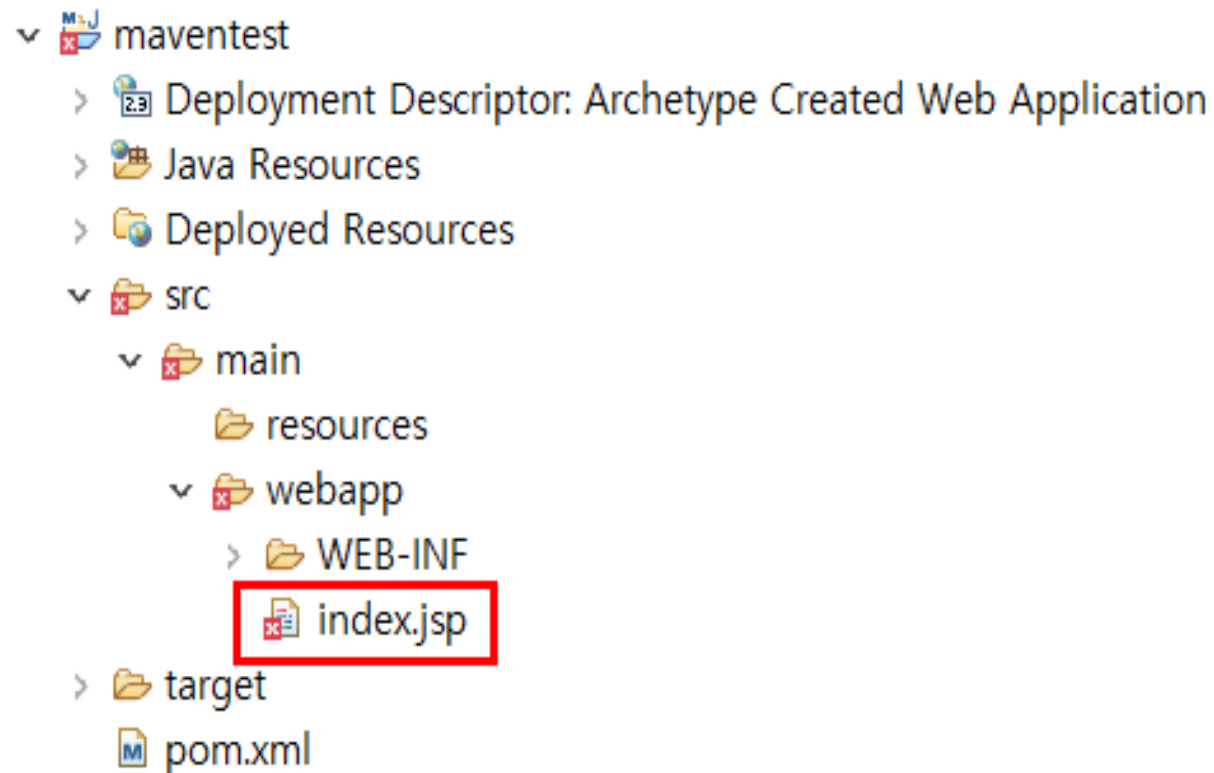
Name	Value

Advanced

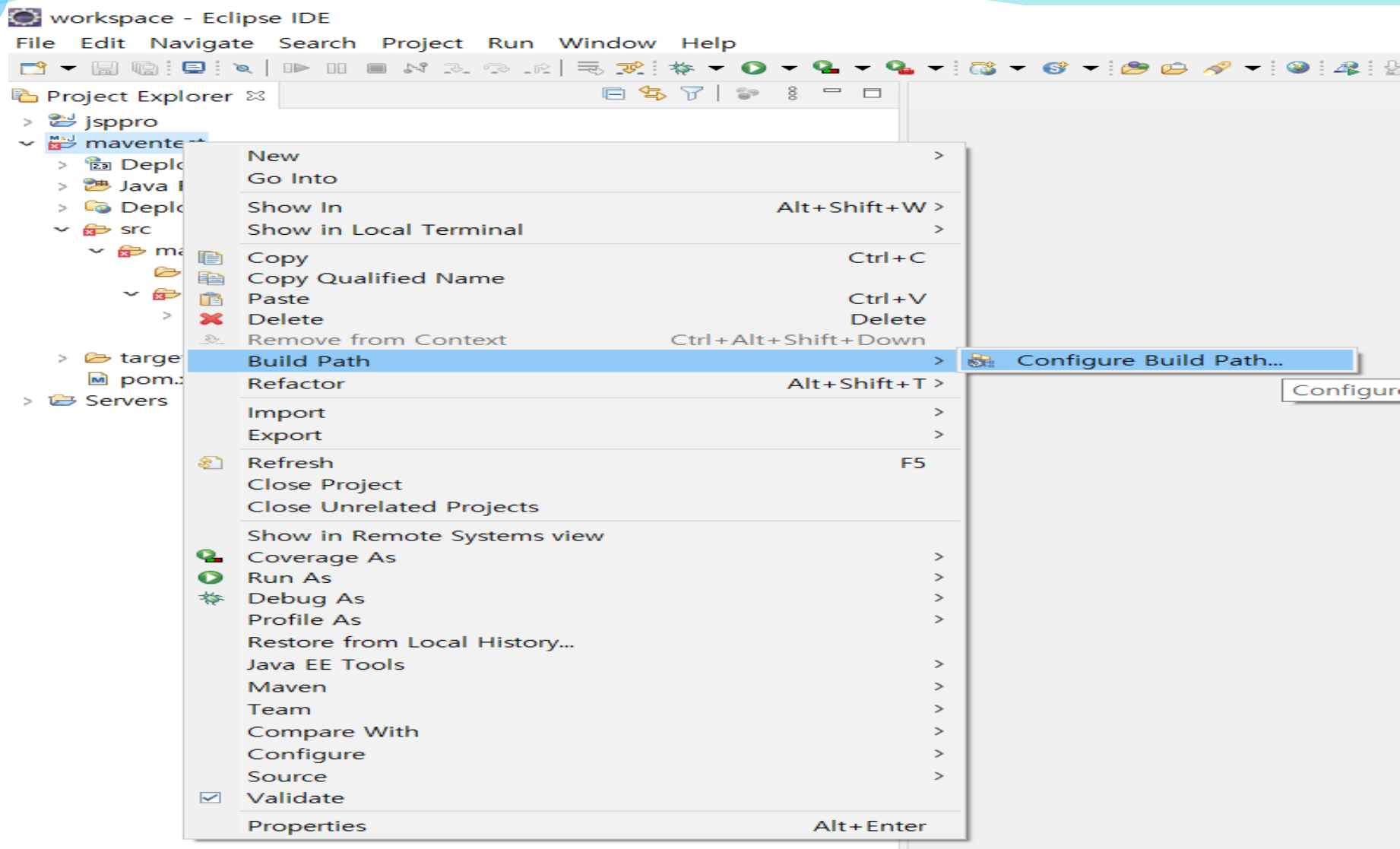
# Maven Project 생성

## ❖ maven project 에러발생

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

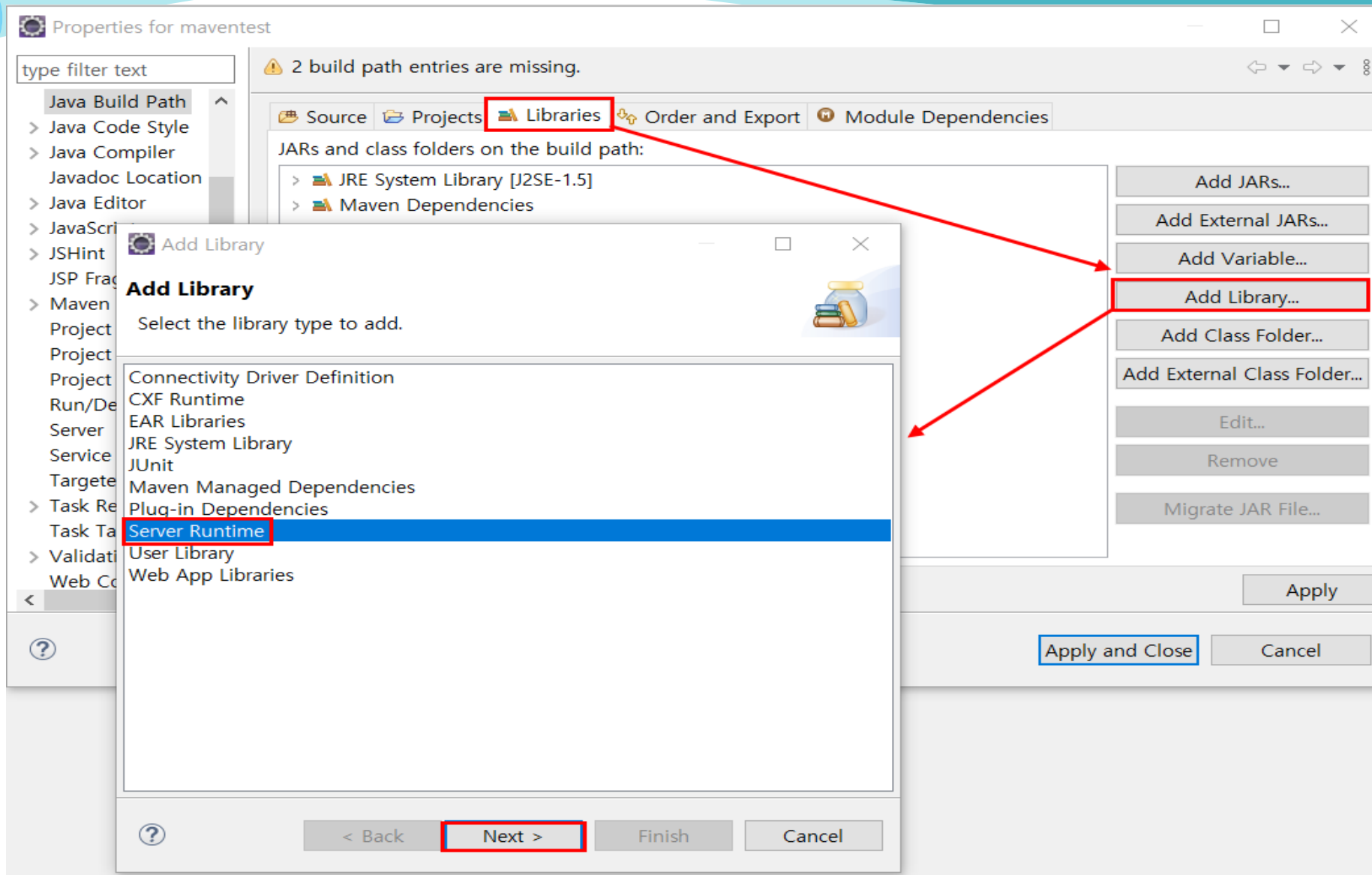


# Apache Tomcat Library 추가

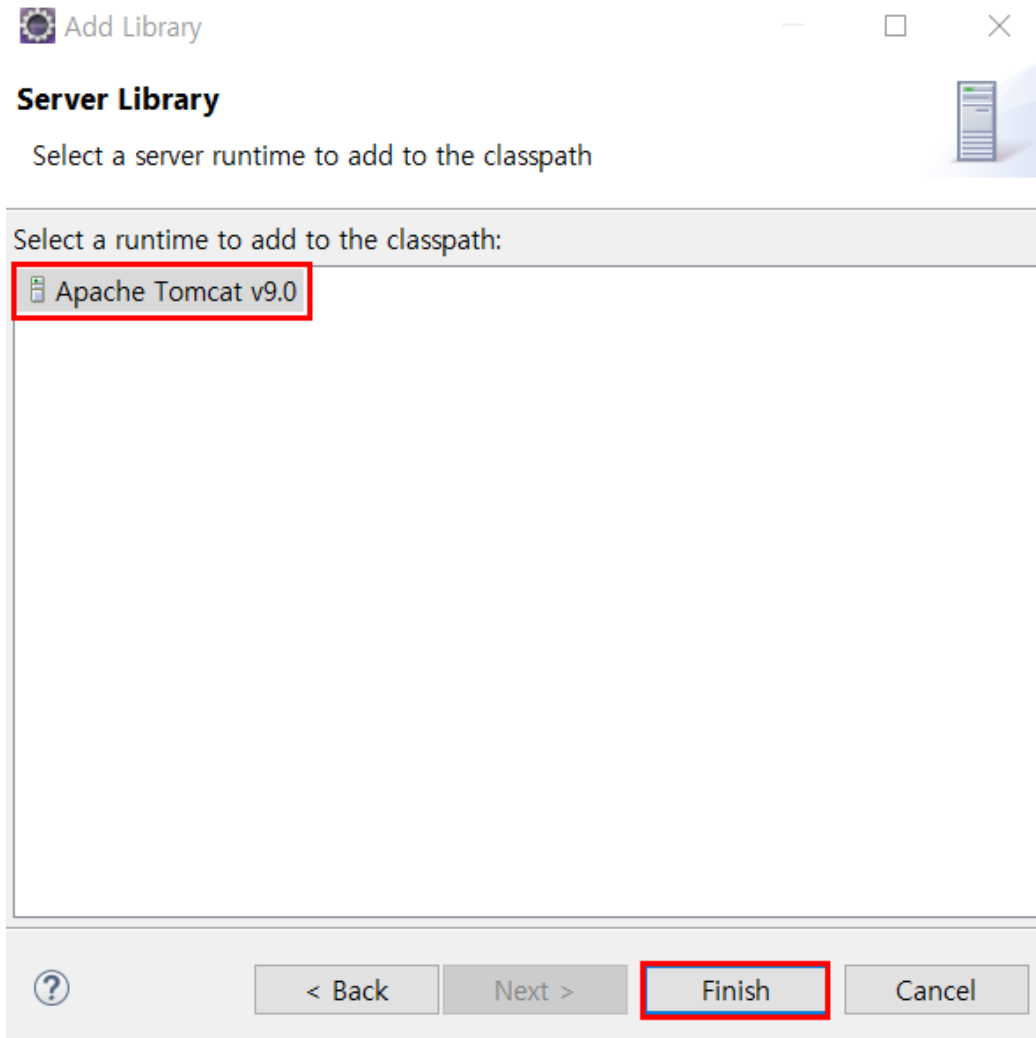




# Apache Tomcat Library 추가



# 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>

The screenshot shows a web browser window with the URL `mvnrepository.com/search?q=cos`. The page displays search results for the term 'cos'. The search bar at the top contains 'cos' and is highlighted with a red box. The results are sorted by 'relevance' and show three items:

- 1. **Cos** (36 usages) by `com.jfinal`. Last Release on Apr 11, 2020.
- 2. **COS** (30 usages) by `com.servlets`. Last Release on Nov 8, 2005. This item is highlighted with a red box.
- 3. **COS** (15 usages) by `com.servlets`. Last Release on Dec 20, 2005.

The left sidebar shows a list of repositories and groups. The right sidebar features an advertisement for Adobe Stock and a list of indexed repositories (1350).

# 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	<a href="#">servlet</a>
Used By	<a href="#">30 artifacts</a>

**Note:** This artifact was moved to:

[com.servlets](#) » [cos](#)

[Central \(1\)](#)

[Spring Plugins \(1\)](#)

Version	Repository	Usages	Date
<a href="#">05Nov2002</a>	<a href="#">Central</a>	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	<a href="#">servlets.com</a>
HomePage	<a href="http://www.servlets.com/">http://www.servlets.com/</a>
Date	(Nov 08, 2005)
Files	<a href="#">pom</a> (768 bytes) <a href="#">jar</a> (55 KB) <a href="#">View All</a>
Repositories	<a href="#">Central</a>
Used By	<b>30 artifacts</b>

[Maven](#) [Gradle](#) [Gradle \(Short\)](#) [Gradle \(Kotlin\)](#) [SBT](#) [Ivy](#) [Grape](#) [Leiningen](#)  
[Buildr](#)

```
<!-- https://mavenrepository.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>
```

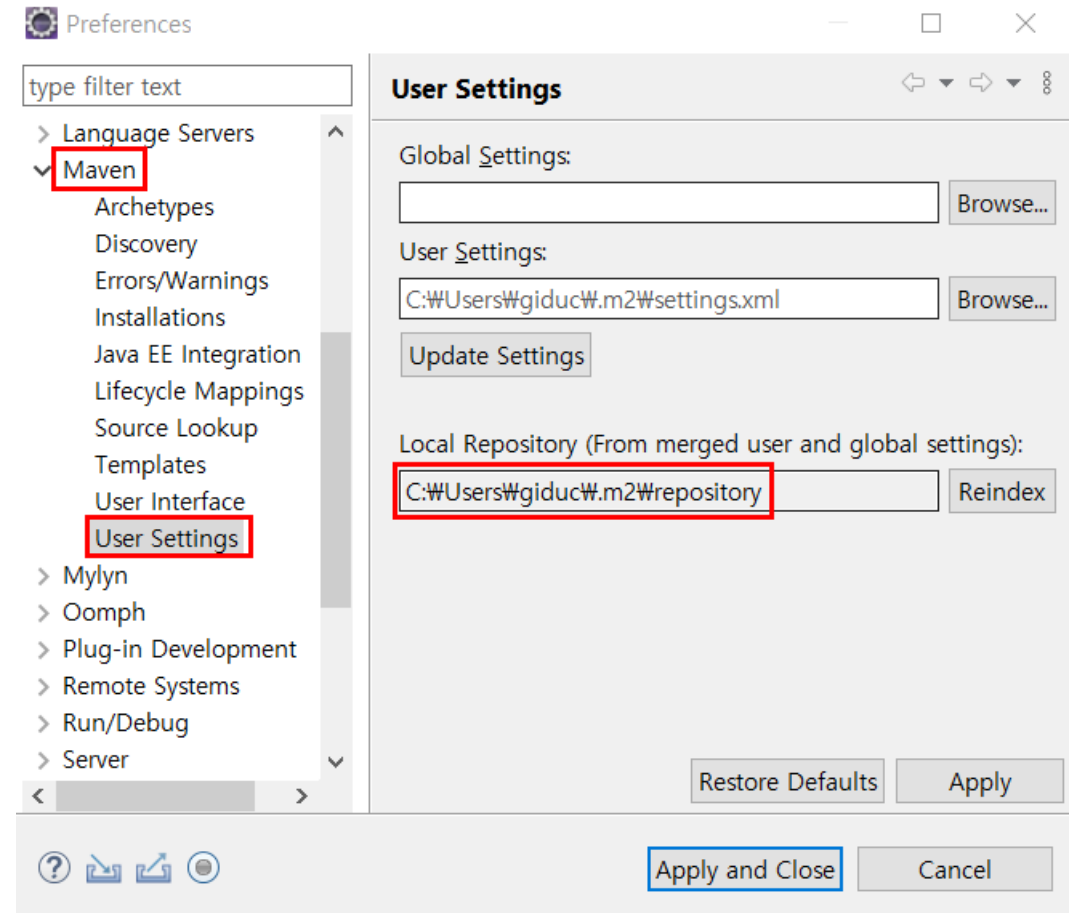
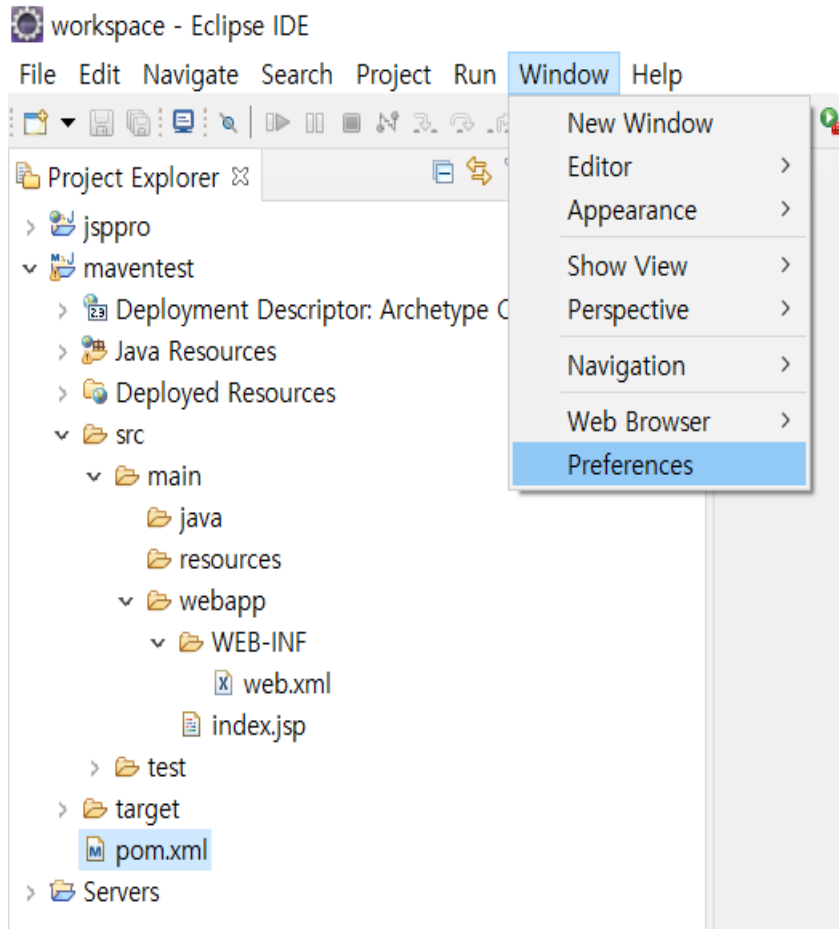
```
        <version>3.0.1</version>
```

```
    </dependency>
```

```
</dependencies>
```

# Local Repository

❖ 로컬 저장소 위치 : `C:\Users\계정\m2\repository`



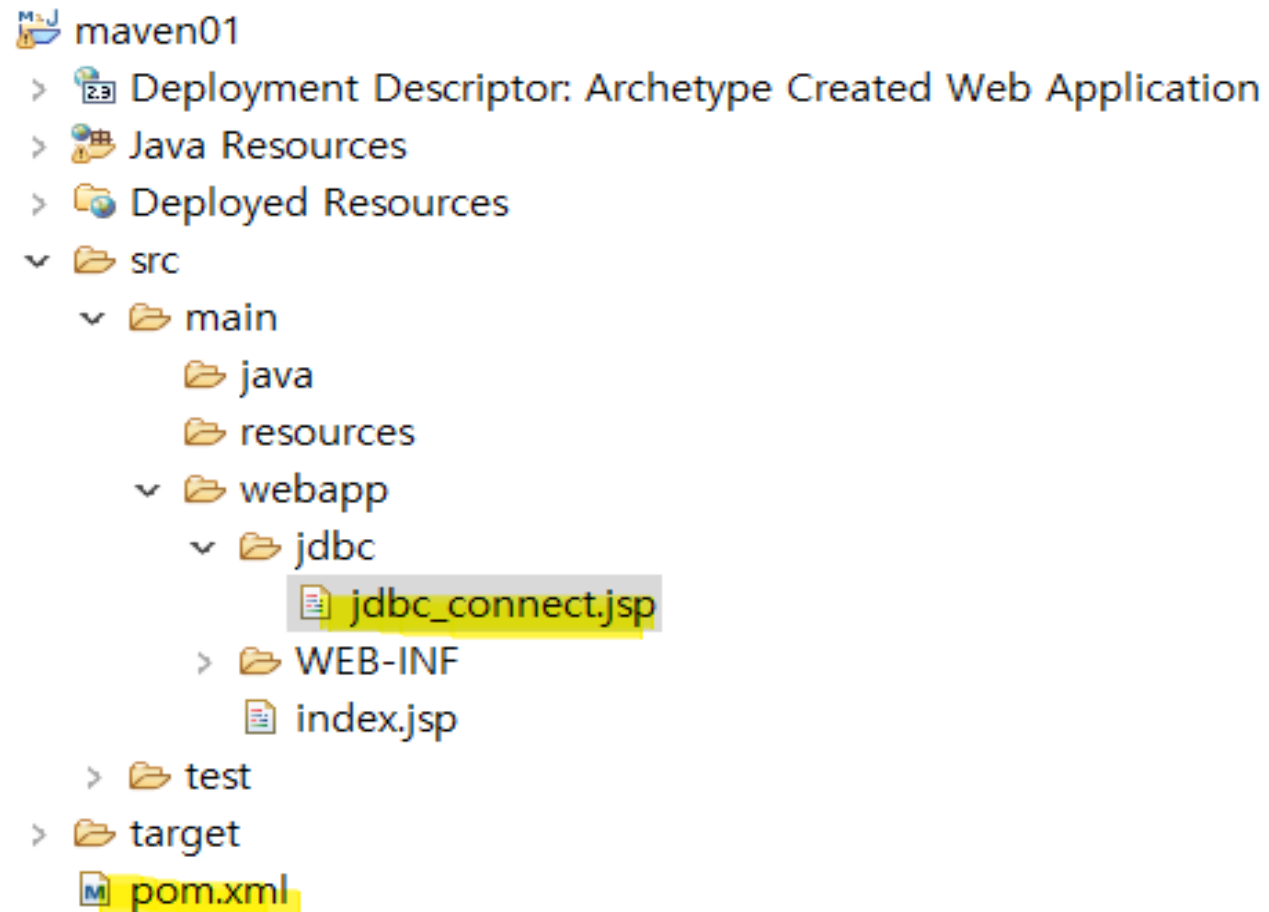
# DB연동

## ❖ 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



## 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();
    }
}
%>
```