

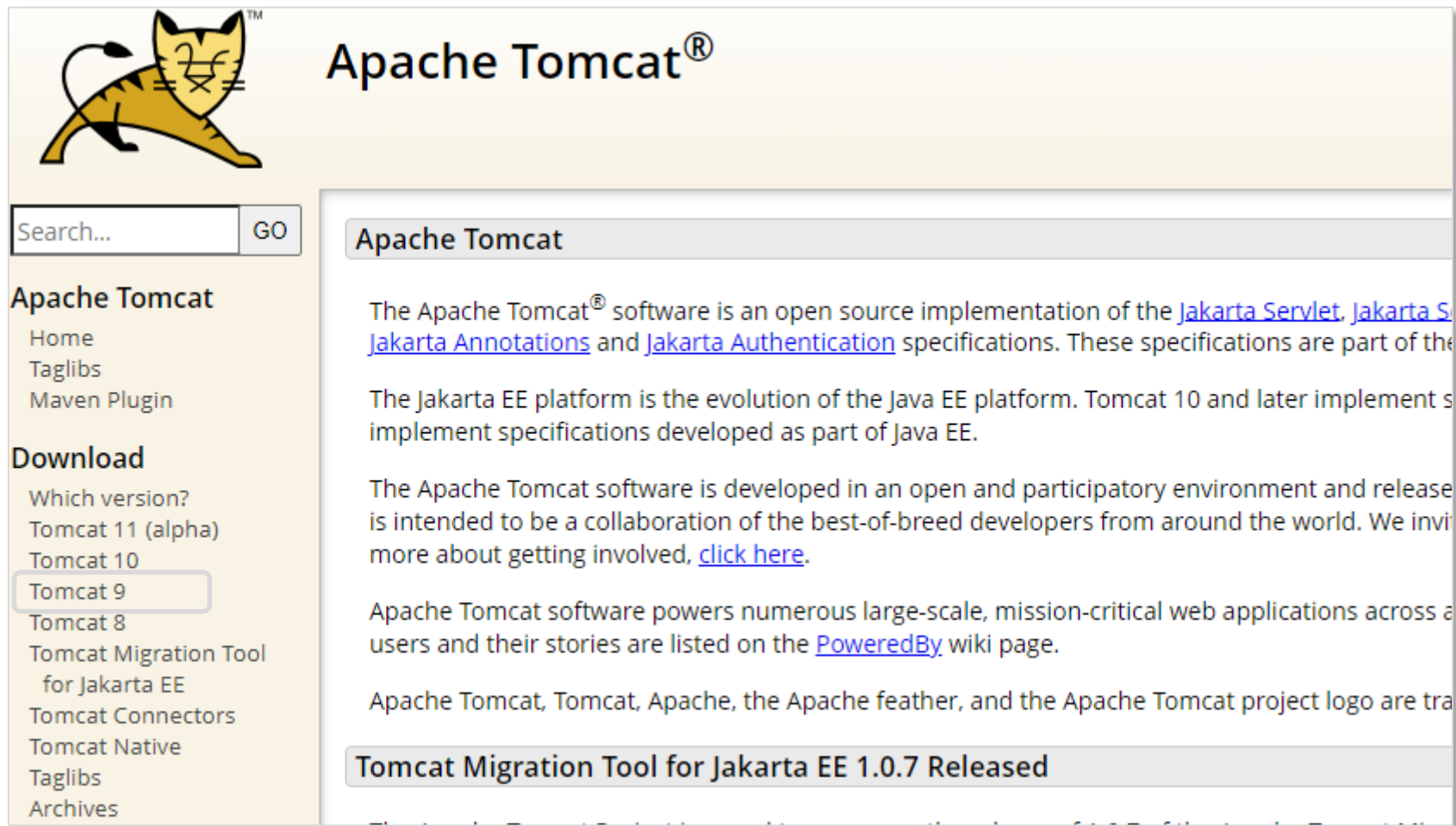
2024년 상반기 K-디지털 트레이닝

웹 어플리케이션 프로젝트

[KB] IT's Your Life

✓ 톰캣 다운로드

- <https://tomcat.apache.org/>



✓ 톰캣 다운로드

9.0.74

Please see the [README](#) file for packaging information. It explains what every distribution contains.

Binary Distributions

- Core:
 - [zip](#) ([pgp](#), [sha512](#))
 - [tar.gz](#) ([pgp](#), [sha512](#))
 - [32-bit Windows zip](#) ([pgp](#), [sha512](#))
 - [64-bit Windows zip](#) ([pgp](#), [sha512](#))
 - [32-bit/64-bit Windows Service Installer](#) ([pgp](#), [sha512](#))
- Full documentation:
 - [tar.gz](#) ([pgp](#), [sha512](#))
- Deployer:
 - [zip](#) ([pgp](#), [sha512](#))
 - [tar.gz](#) ([pgp](#), [sha512](#))
- Embedded:
 - [tar.gz](#) ([pgp](#), [sha512](#))
 - [zip](#) ([pgp](#), [sha512](#))

✓ 압축 해제

○ C:\Wapache-tomcat-9.0.74

내 PC > 로컬 디스크 (C:) > apache-tomcat-9.0.74 >		
이름		수정한 날짜
bin	→ Tomcat 실행 파일	2023-05-03 오후 2:51
conf		2023-05-03 오후 2:51
lib	→ JSP/Servlet 라이브러리	2023-05-03 오후 2:51
logs		2023-04-13 오전 8:10
temp		2023-05-03 오후 2:51
webapps	→ 웹 어플리케이션 관리	2023-05-03 오후 2:51
work		2023-04-13 오전 8:10
BUILDING.txt		2023-04-13 오전 8:10
CONTRIBUTING.md		2023-04-13 오전 8:10
LICENSE		2023-04-13 오전 8:10
NOTICE		2023-04-13 오전 8:10
README.md		2023-04-13 오전 8:10
RELEASE-NOTES		2023-04-13 오전 8:10
RUNNING.txt		2023-04-13 오전 8:10

✓ 한글 로그 문자셋 설정(윈도우 만)

○ C:\Wapache-tomcat-9.0.89\conf\logging.properties

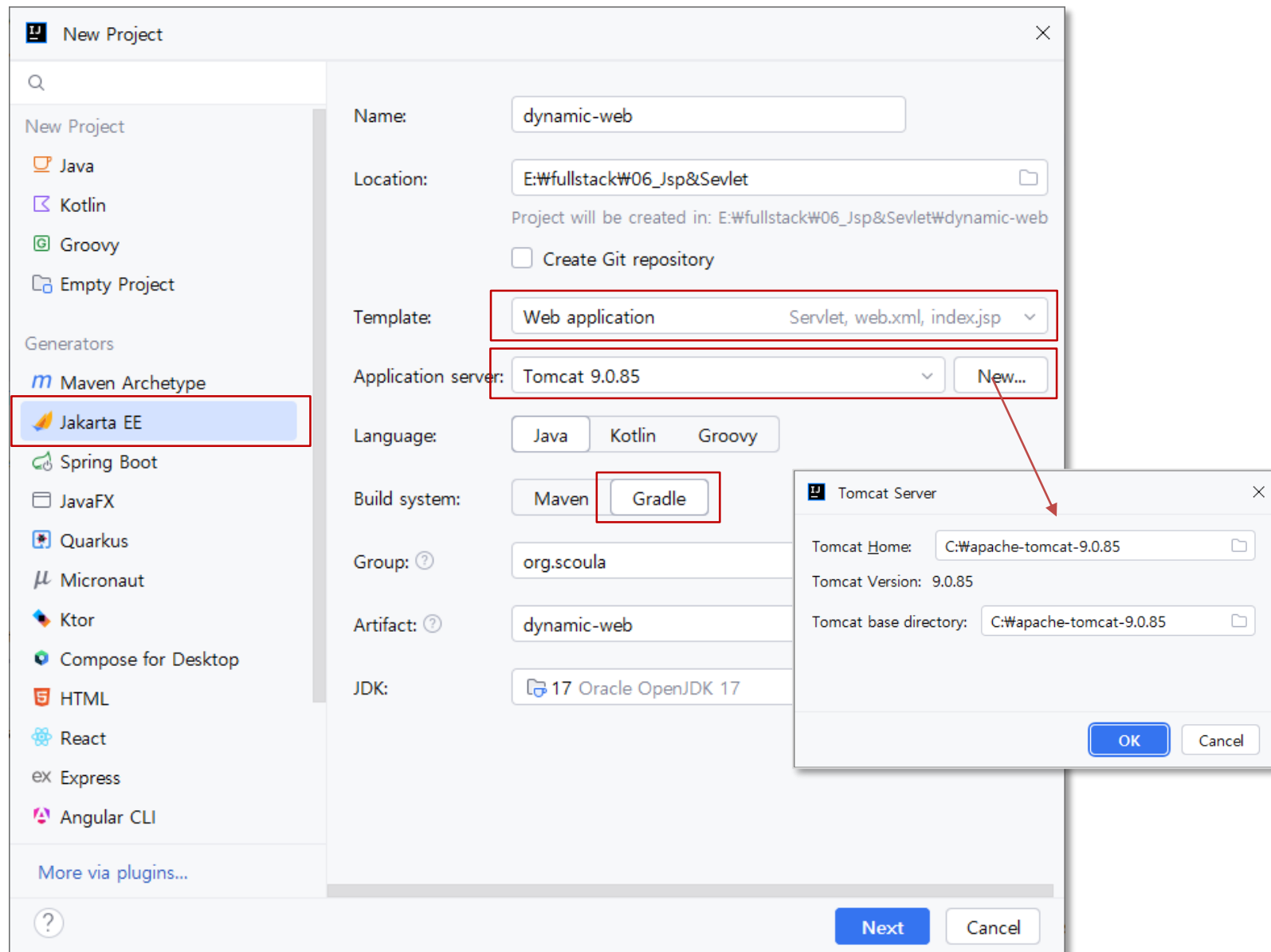
```
..
#####
# Handler specific properties.
# Describes specific configuration info for Handlers.
#####

1catalina.org.apache.juli.AsyncFileHandler.level = FINE
1catalina.org.apache.juli.AsyncFileHandler.directory = ${catalina.base}/logs
1catalina.org.apache.juli.AsyncFileHandler.prefix = catalina.
1catalina.org.apache.juli.AsyncFileHandler.maxDays = 90
# 1catalina.org.apache.juli.AsyncFileHandler.encoding = UTF-8
1catalina.org.apache.juli.AsyncFileHandler.encoding = EUC-KR
...
```

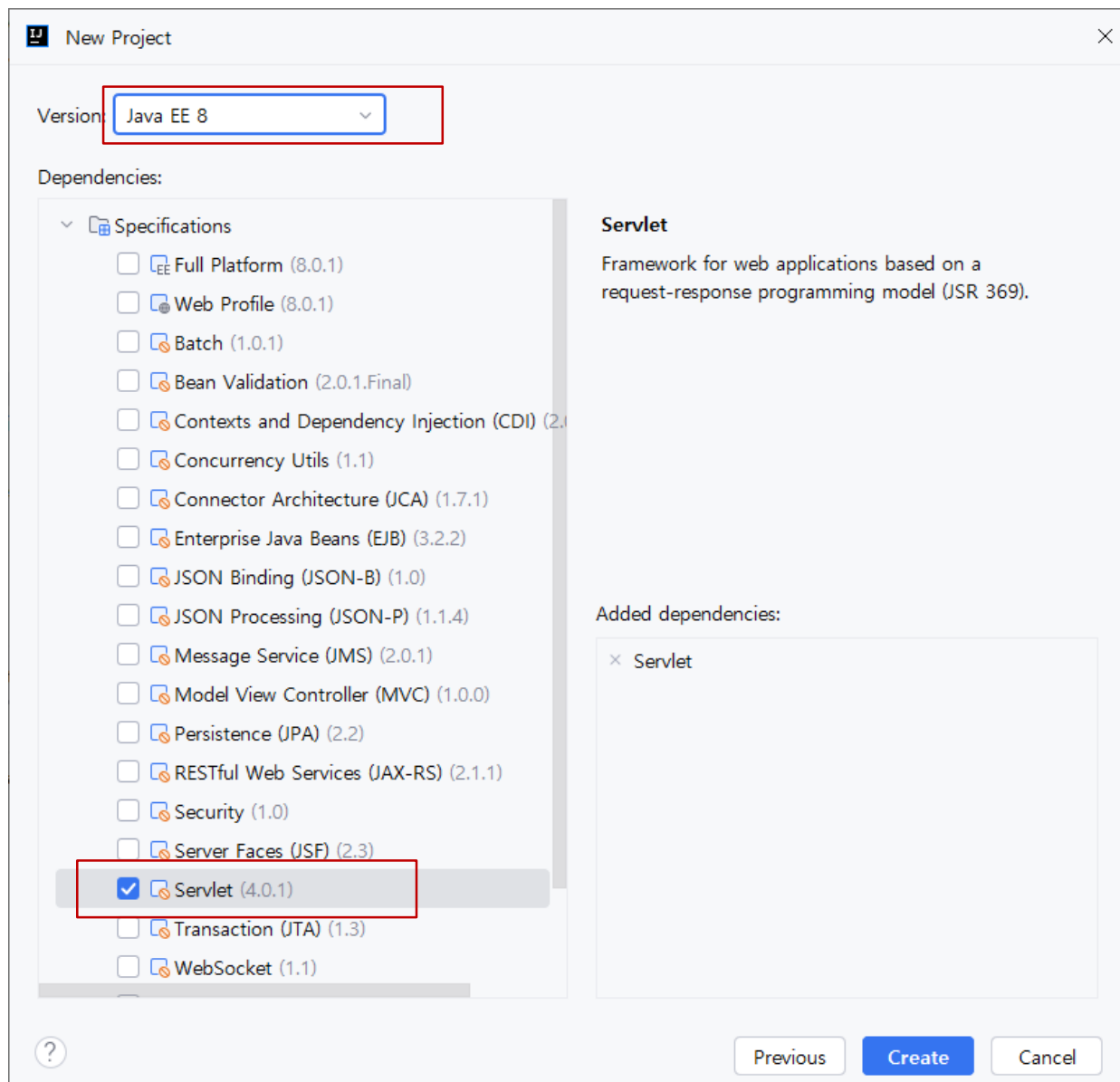
✓ 프로젝트 만들기

○ File > New Project

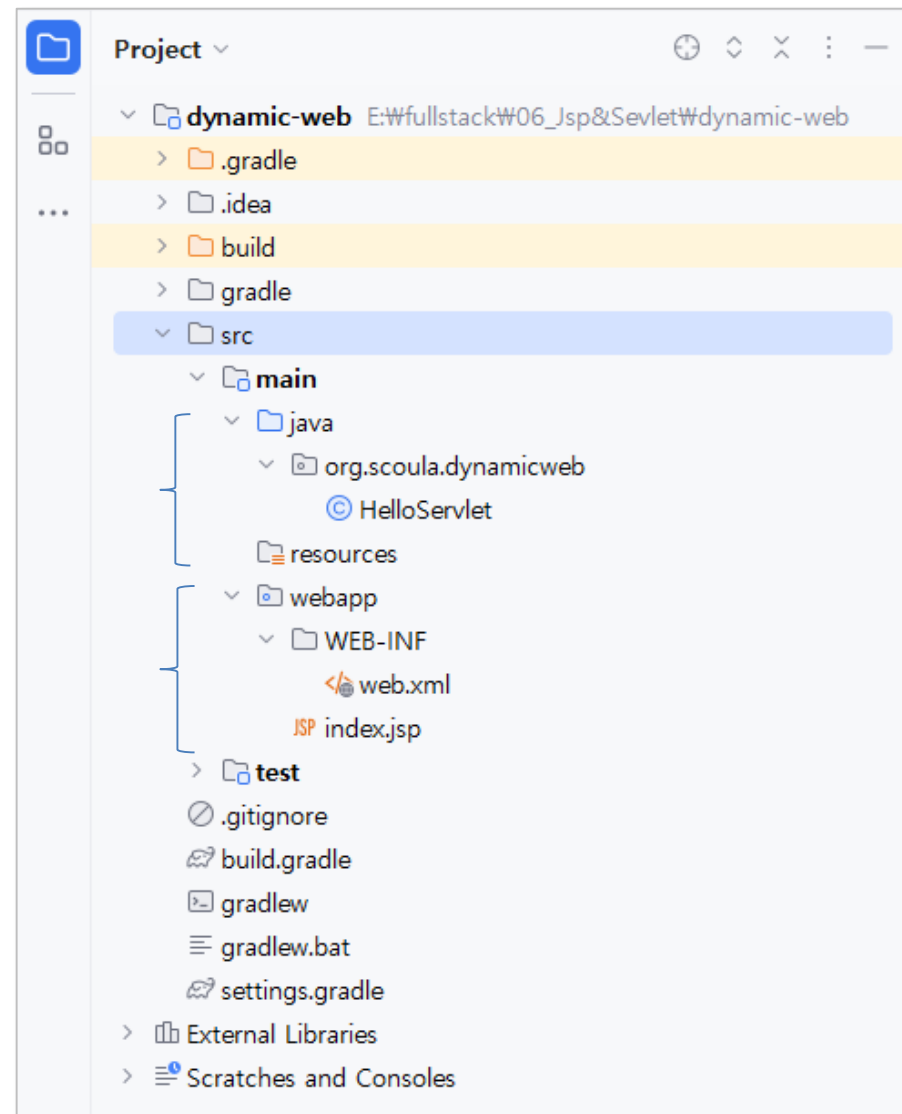
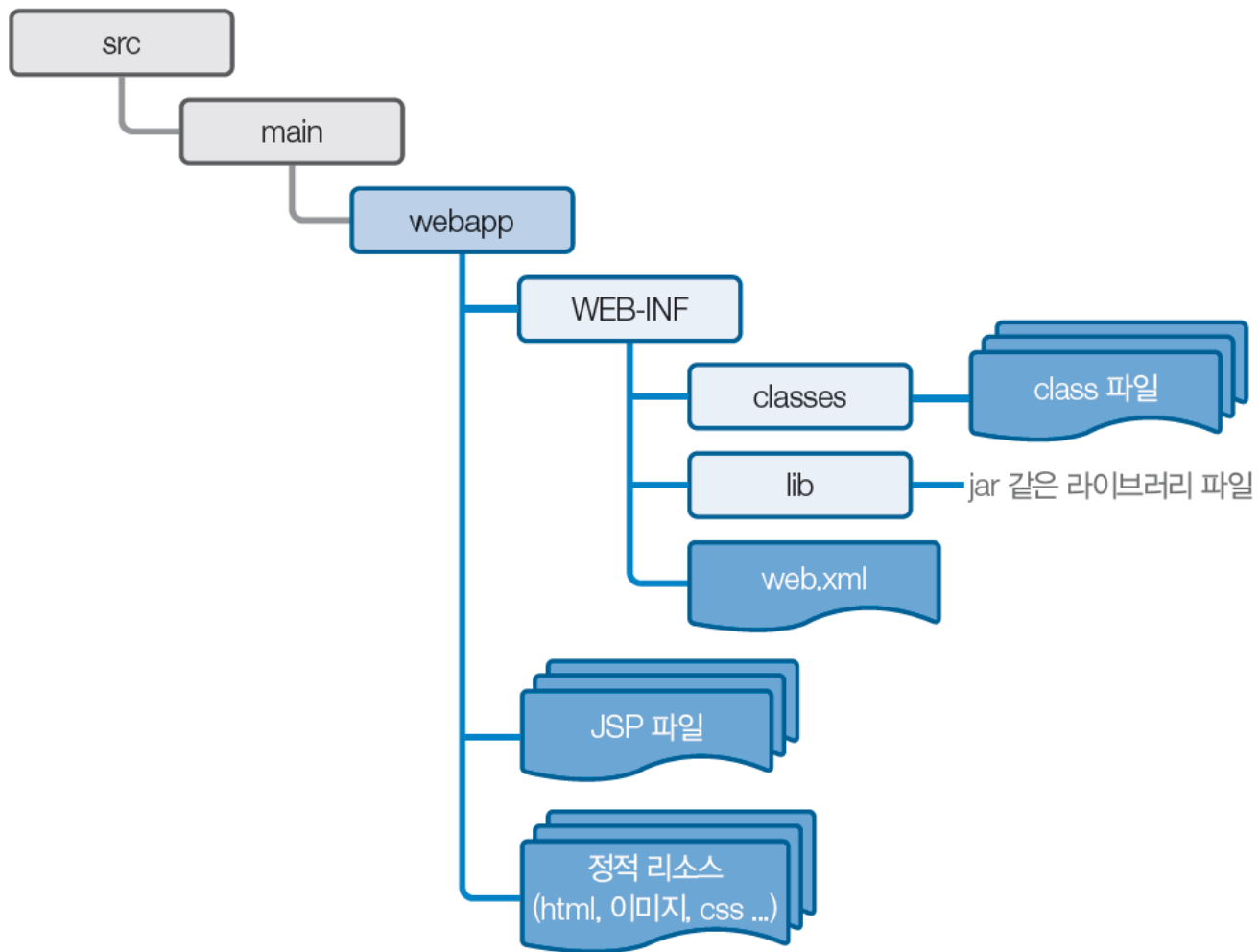
- Name: dynamic-web
- Location:
C:\Wfullstack\W06_Jsp&Servlet
- Template: Web application
- Build system: Gradle
- GroupId: org.scoula
- ArtifactId: dynamic-web



✓ 프로젝트 만들기



✓ 프로젝트 기본구조



webapp/WEB-INF/web.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<web-app xmlns="http://xmlns.jcp.org/xml/ns/javaee"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://xmlns.jcp.org/xml/ns/javaee http://xmlns.jcp.org/xml/ns/javaee/web-app_4_0.xsd"
  version="4.0">
</web-app>
```

cf] Servlet 3.1 버전인 경우

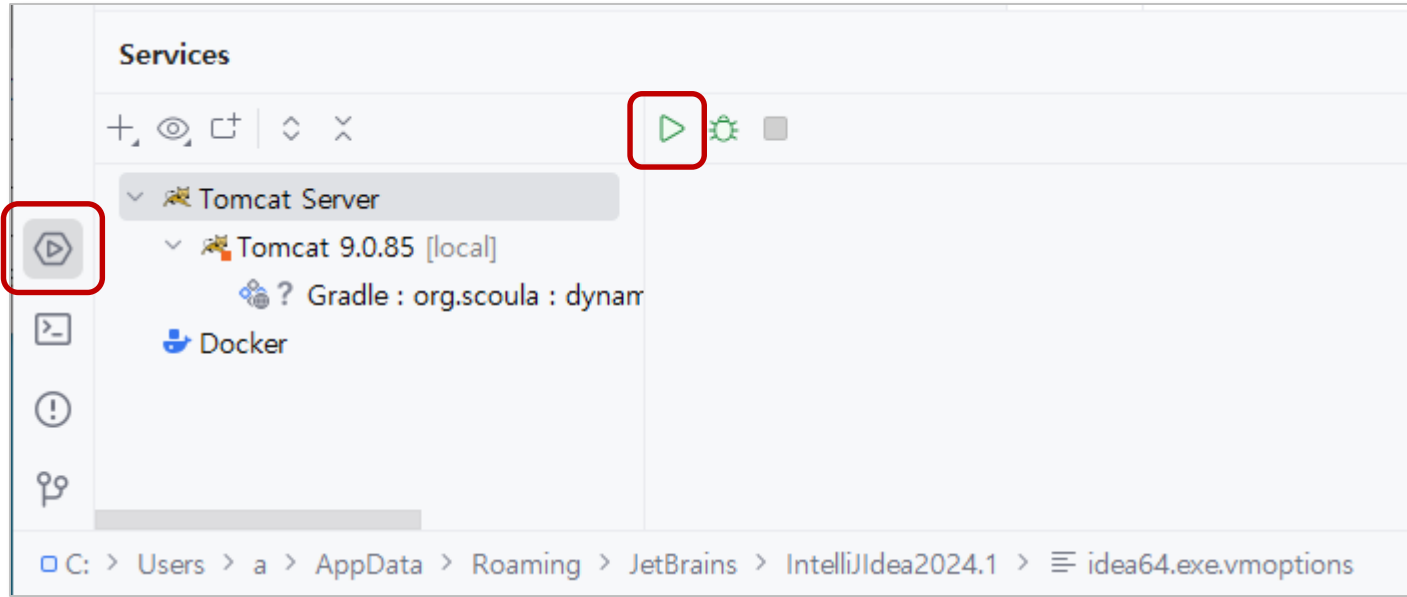
```
<?xml version="1.0" encoding="UTF-8"?>
<web-app xmlns="http://xmlns.jcp.org/xml/ns/javaee"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://xmlns.jcp.org/xml/ns/javaee http://xmlns.jcp.org/xml/ns/javaee/web-app_3_1.xsd"
  id="WebApp_ID" version="3.1">
</web-app>
```

build.gradle

```
plugins {  
    id 'java'  
    id 'war'  
}  
  
group 'org.scoula'  
version '1.0-SNAPSHOT'  
  
repositories {  
    mavenCentral()  
}  
  
ext {  
    junitVersion = '5.9.2'  
}  
  
sourceCompatibility = '1.17'  
targetCompatibility = '1.17'  
  
tasks.withType(JavaCompile) {  
    options.encoding = 'UTF-8'  
}
```

```
dependencies {  
    compileOnly('javax.servlet:javax.servlet-api:4.0.1')  
  
    testImplementation("org.junit.jupiter:junit-jupiter-api:${junitVersion}")  
    testRuntimeOnly("org.junit.jupiter:junit-jupiter-engine:${junitVersion}")  
}  
  
test {  
    useJUnitPlatform()  
}
```

✓ 톰캣의 실행 및 재기동



Context Path(Application name)

http://localhost:8080/Gradle__org_scoula__dynamic_web_1_0_SNAPSHOT_war/

Hello World!

[Hello Servlet](#)

webapp/index.jsp

```
<%@ page contentType="text/html; charset=UTF-8" pageEncoding="UTF-8" %>
<!DOCTYPE html>
<html>
<head>
  <title>JSP - Hello World</title>
</head>
<body>
<h1><%= "Hello World!" %></h1>
<br/>
<a href="hello-servlet">Hello Servlet</a>
</body>
</html>
```

Context Path(Application name)

http://localhost:8080/Gradle__org_scoula__dynamic_web_1_0_SNAPSHOT_war/

Hello World!

[Hello Servlet](#)

HelloServlet.java

```
package org.scoula.dynamicweb;
```

```
import java.io.*;
```

```
import javax.servlet.http.*;
```

```
import javax.servlet.annotation.*;
```

```
@WebServlet(name = "helloServlet", value = "/hello-servlet")
```

```
public class HelloServlet extends HttpServlet {  
    private String message;
```

```
    public void init() {  
        message = "Hello World!";  
    }
```

```
    public void doGet(HttpServletRequest request, HttpServletResponse response) throws IOException {  
        response.setContentType("text/html");
```

```
        // Hello  
        PrintWriter out = response.getWriter();  
        out.println("<html><body>");  
        out.println("<h1>" + message + "</h1>");  
        out.println("</body></html>");
```

```
    }
```

```
    public void destroy() {  
    }
```

```
}
```

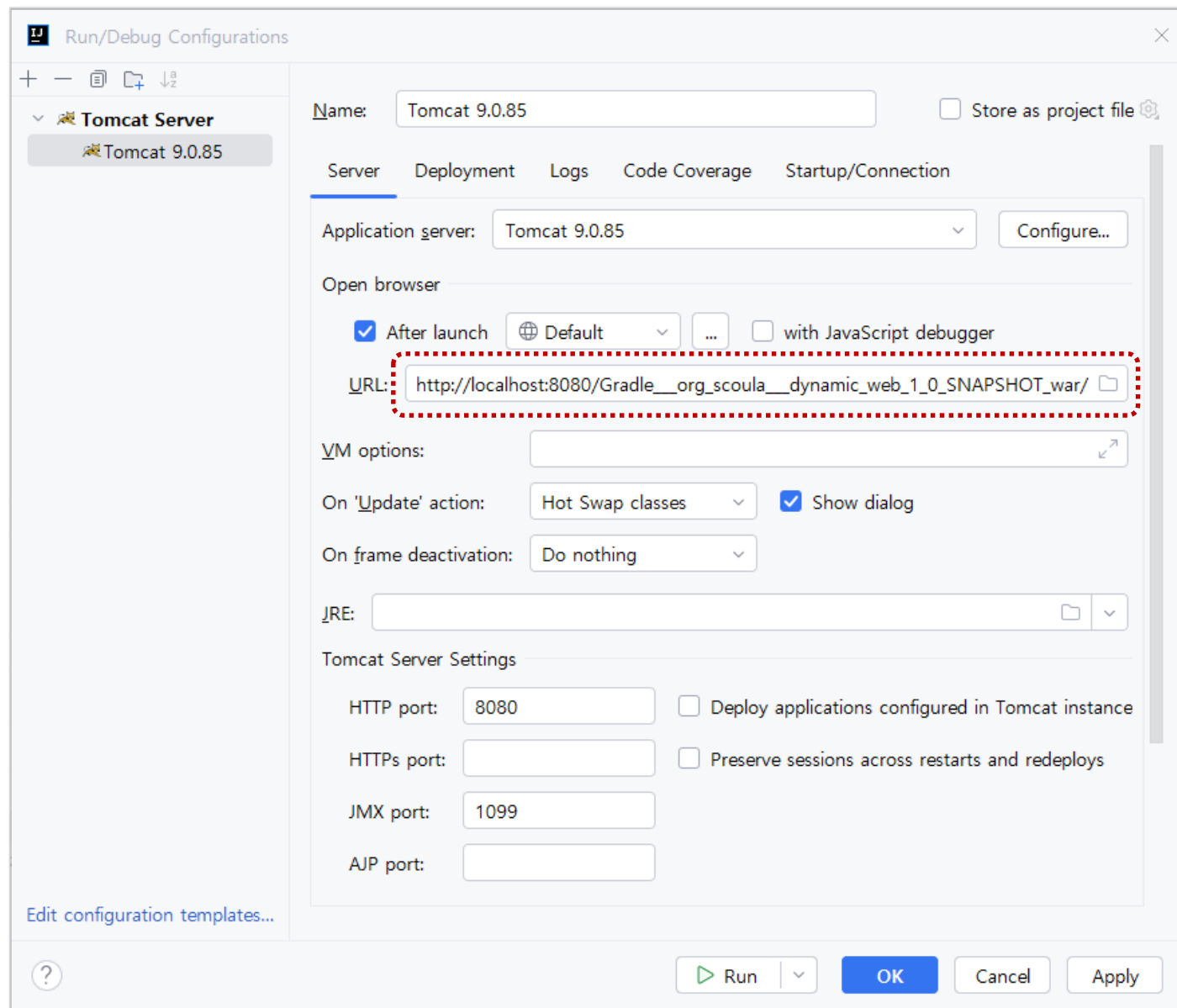
Context Path(Application name)

http://localhost:8080/Gradle__org_scoula__dynamic_web_1_0_SNAPSHOT_war/hello-servlet

Hello World!

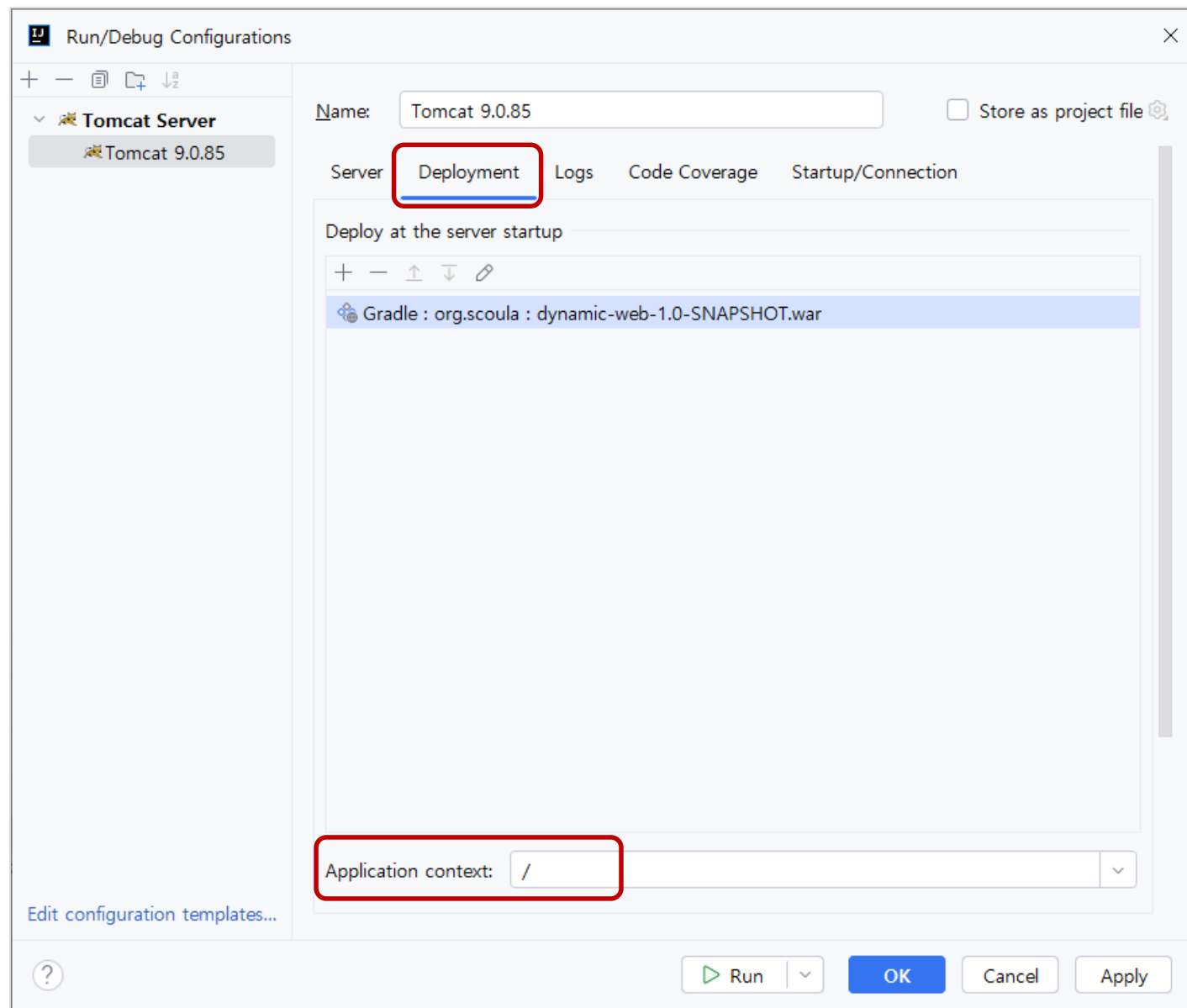
✓ 톰캣 서버 설정

○ context path 확인



✓ 톰캣 서버 설정

○ context path 변경



✎ HelloServlet.java (수정)

```
package org.scoula.dynamicweb;

import java.io.*;
import javax.servlet.http.*;
import javax.servlet.annotation.*;

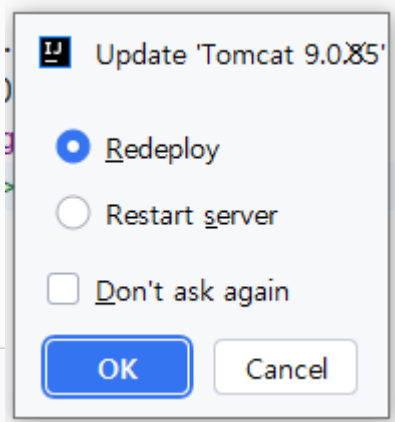
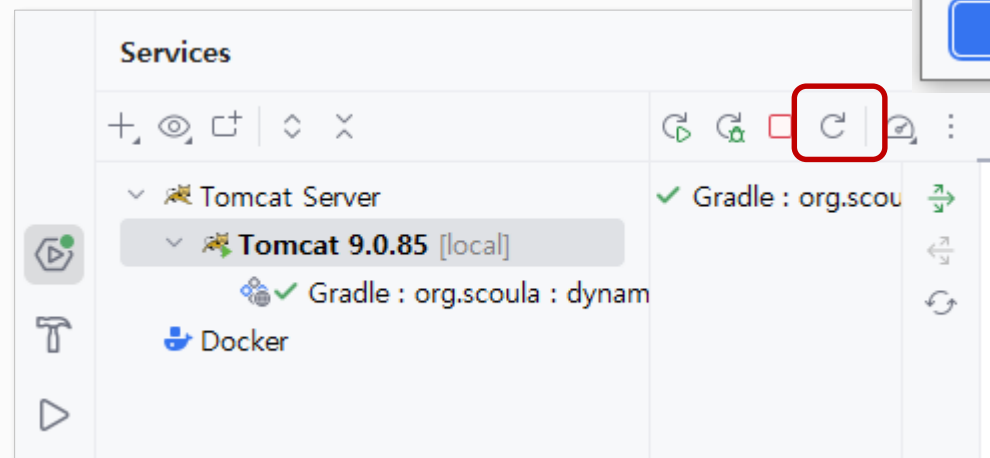
@WebServlet(name = "helloServlet", value = "/hello-servlet")
public class HelloServlet extends HttpServlet {
    private String message;

    public void init() {
        message = "Hello Servlet!";
    }

    public void doGet(HttpServletRequest request, HttpServletResponse response) throws IOException {
        response.setContentType("text/html");

        // Hello
        PrintWriter out = response.getWriter();
        out.println("<html><body>");
        out.println("<h1>" + message + "</h1>");
        out.println("</body></html>");
    }

    public void destroy() {
    }
}
```



✓ 프로젝트 템플릿 만들기

- File > New Projects Setup > Save Project as Template...

