

How to install Dev Kits

Outline

This Section describes how to use the developmental environment that eGov Standard Framework offers.

Step 1. Installing Development Environment

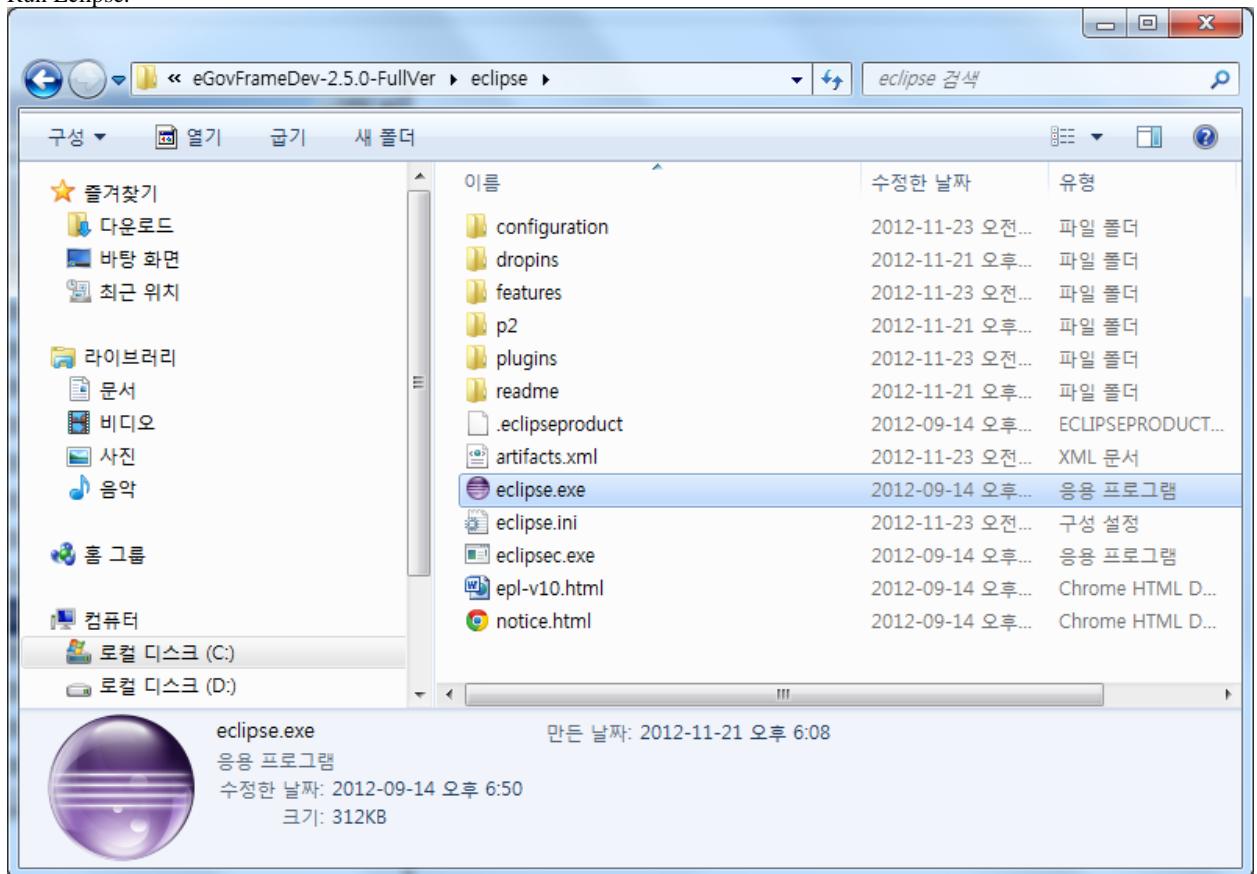
Download Developmental Environment

1. Go to eGovFrame web (<http://www.egovframe.go.kr/>, <http://www.egovframe.org/>, <http://www.egovframe.kr/>), Log-in and move on to “Download > Developmental Environment”.

The screenshot shows the eGovFrame portal homepage. At the top, there is a navigation bar with links for 'Member Login', '로그인 | 사이트맵 | 찾아오시는 길 | English'. Below the navigation bar, there is a main menu with options like '표준프레임워크 소개', '개발 가이드', '다운로드' (highlighted with a red box), '개발자 지원', '정보화사업 적용지원', and '알림마당'. A sub-menu for 'Development Environment' is open under '다운로드', listing options such as '설명환경', '개발환경' (highlighted with a red box), '운영환경', '공통컴포넌트', '모바일설명환경', and '모바일공통컴포넌트'. The main content area displays news articles and other information. On the right side, there is a sidebar titled 'eGovFrame 주요 서비스' with links to '교육신청', '기술지원', '모바일 설명환경가이드', and '관련 참고 문서'. At the bottom, there are links to 'Open Community' and 'eGovFrame 표준프레임워크 동영상보기'.

Run Developmental Environment

1. Run Eclipse.



✓ When encountering “Fail to create Java Virtual Machine”, you need to manually define JVM directory in `eclipse.ini`. You can find `eclipse.ini` in the folder Eclipse is installed.

Note that Java 1.6 or better is the requirement for the developmental environment.

```
-----1-----2-----3-----4-----5-----6-----7--  
▶ 7 -vm  
8 C:/eGovFrame-3.2/bin/jdk1.6.0_45/bin/javaw.exe  
9 --launcher.defaultAction  
10 openFile  
11 --launcher.XXMaxPermSize  
12 256M  
13 -showsplash  
14 org.eclipse.platform  
15 --launcher.XXMaxPermSize  
16 256m  
17 --launcher.defaultAction
```

Convert Perspective

1. Make sure the Perspective at the top-right of the Eclipse is configured for eGovFrame.



- ✓ If Perspective has been configured for something else:

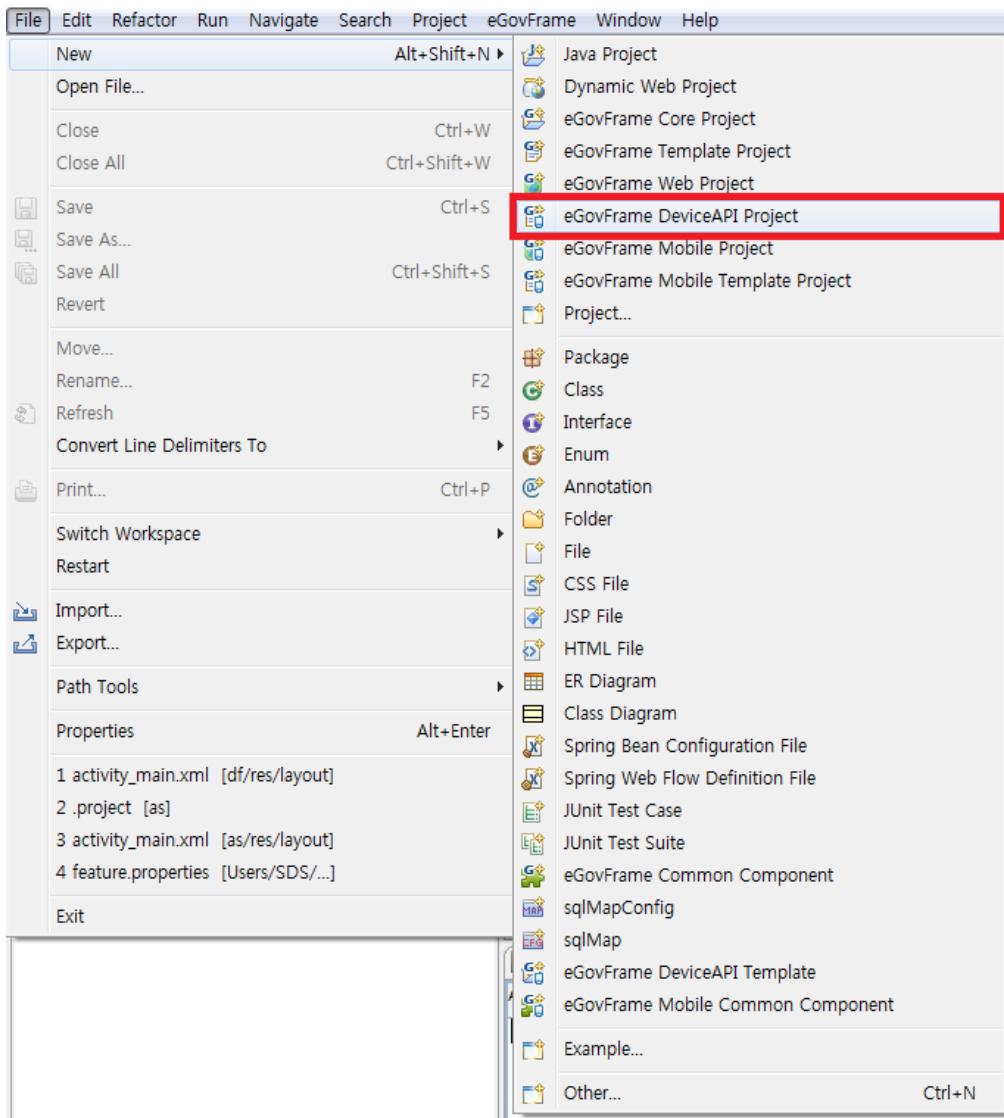
- Click on the icon that you can find on the left and choose "Other... > Open Perspective > eGovFrame".

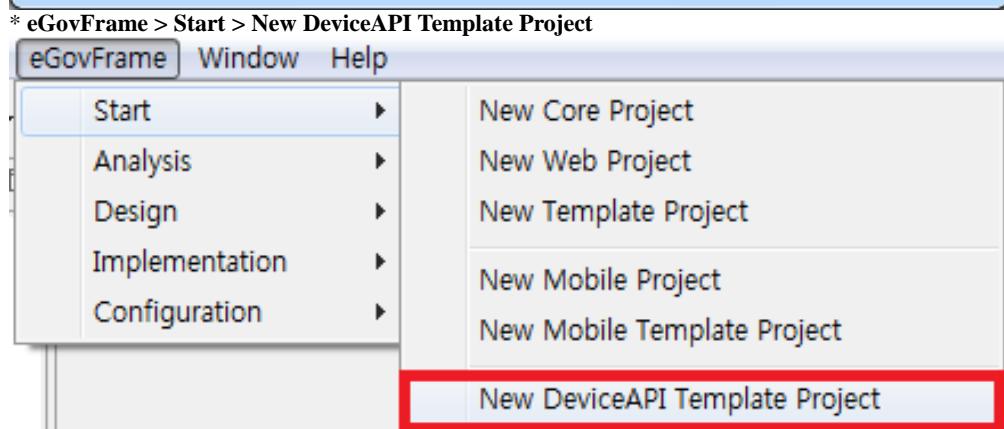
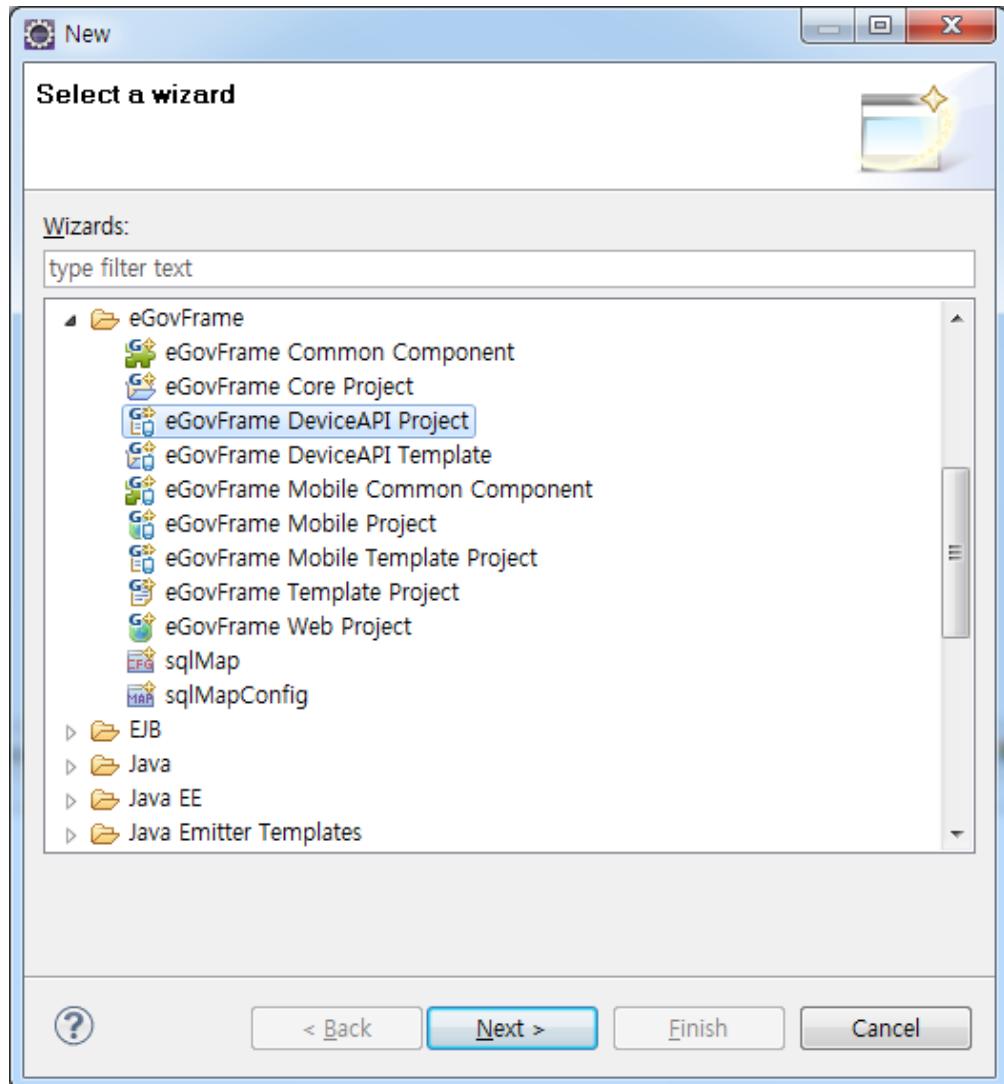


Step 2. Generate and Run Project

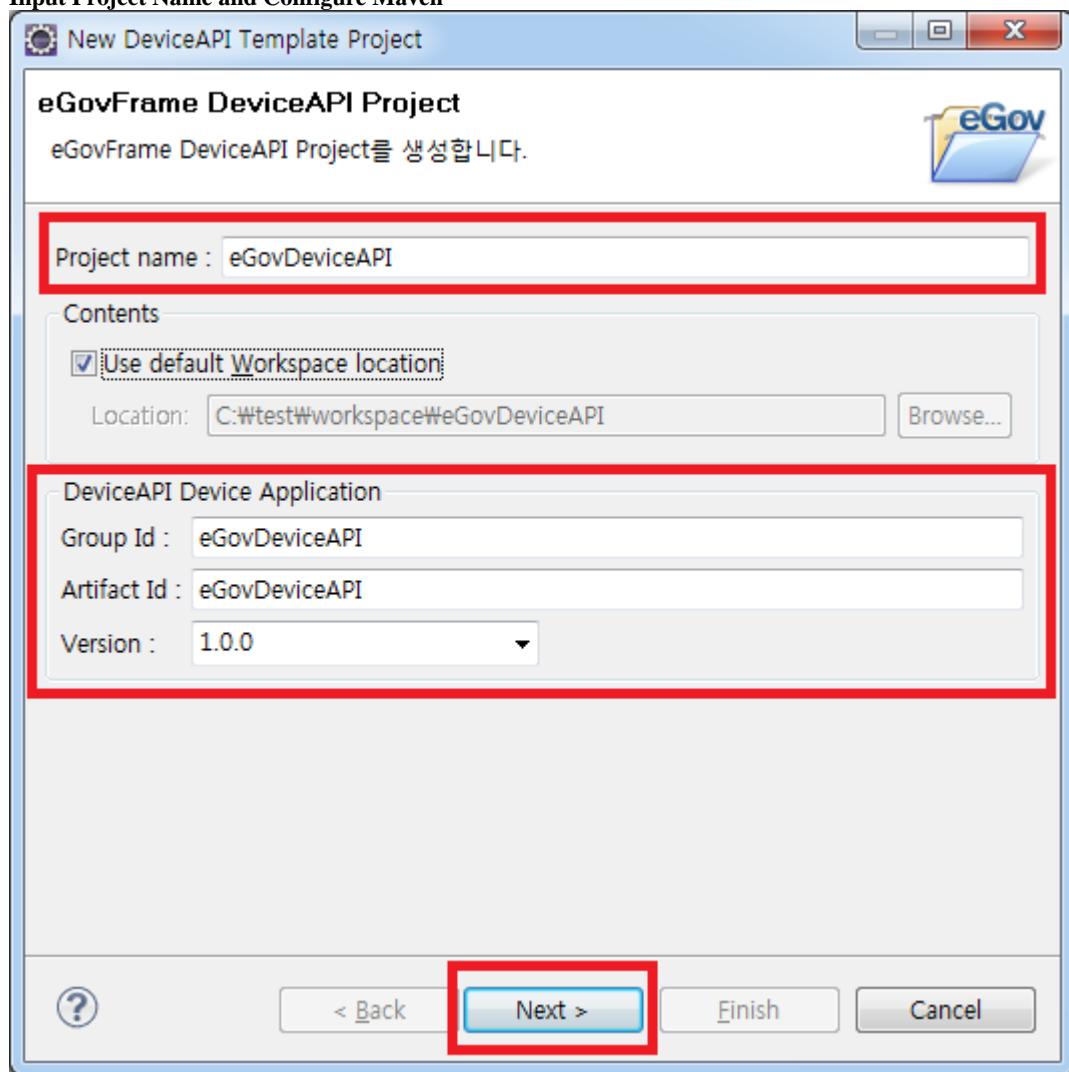
Generate a Project

1. In the menu bar, choose **File>New>eGovFrame DeviceAPI Project**.
You can also use **Ctrl+N**, the shortcut to the wizard, and choose **eGovFrame>eGovFrame DeviceAPI Project** and click on **Next** to move on.

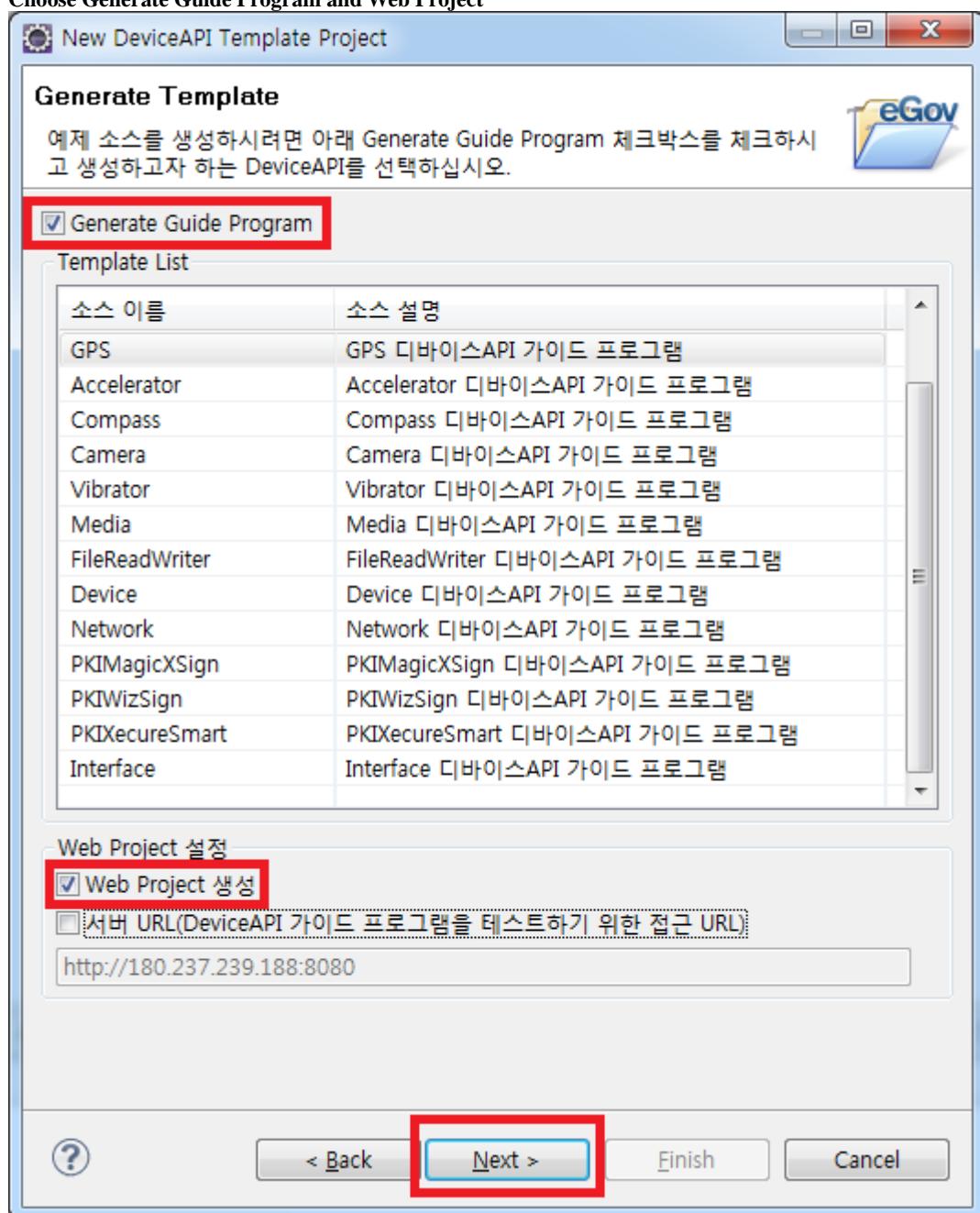




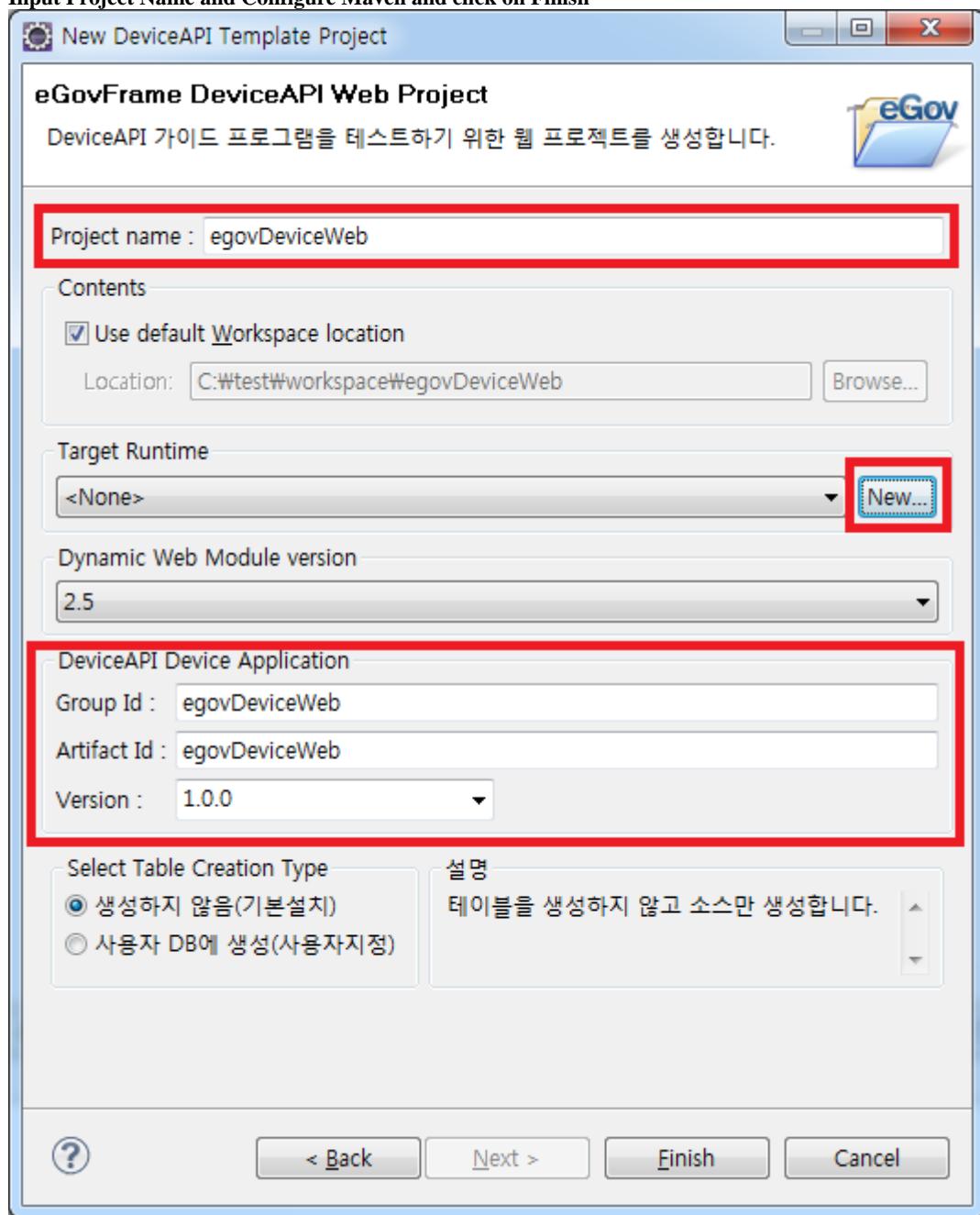
2. Input Project Name and Configure Maven



3. Choose Generate Guide Program and Web Project



4. Input Project Name and Configure Maven and click on Finish



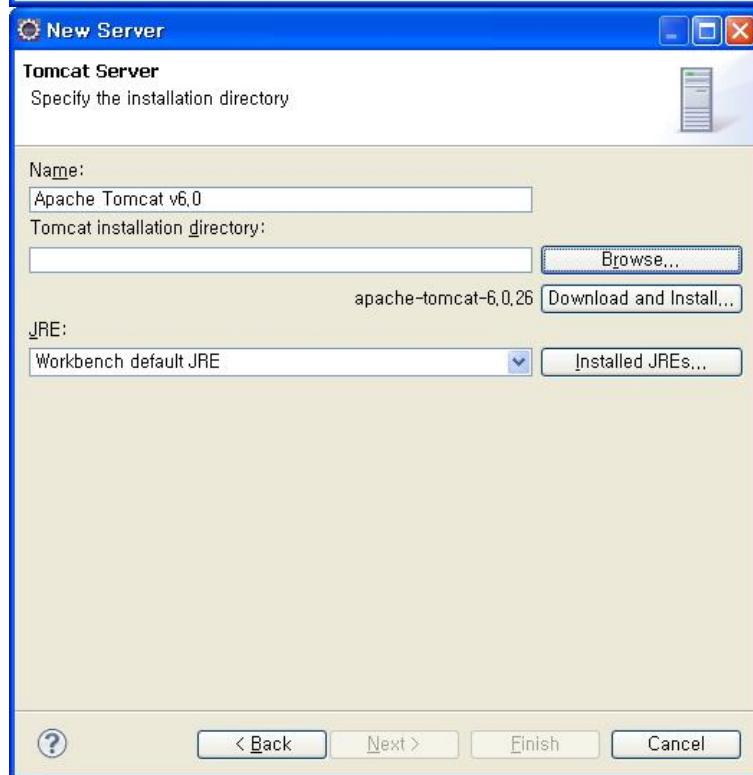
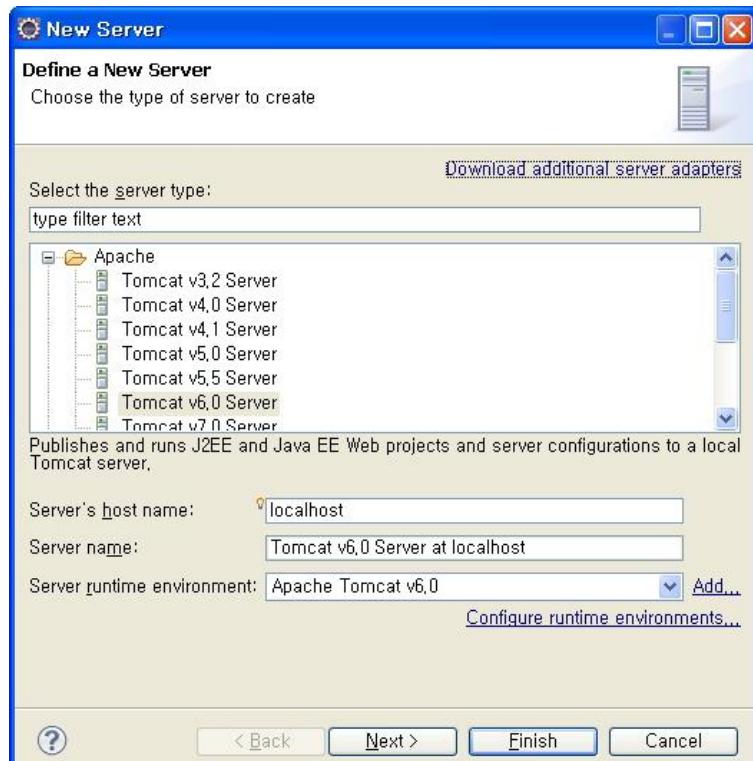
Install Server

- To install a Tomcat Server,

1. click on the tab Server at the bottom, right-click and choose “New> Server”.



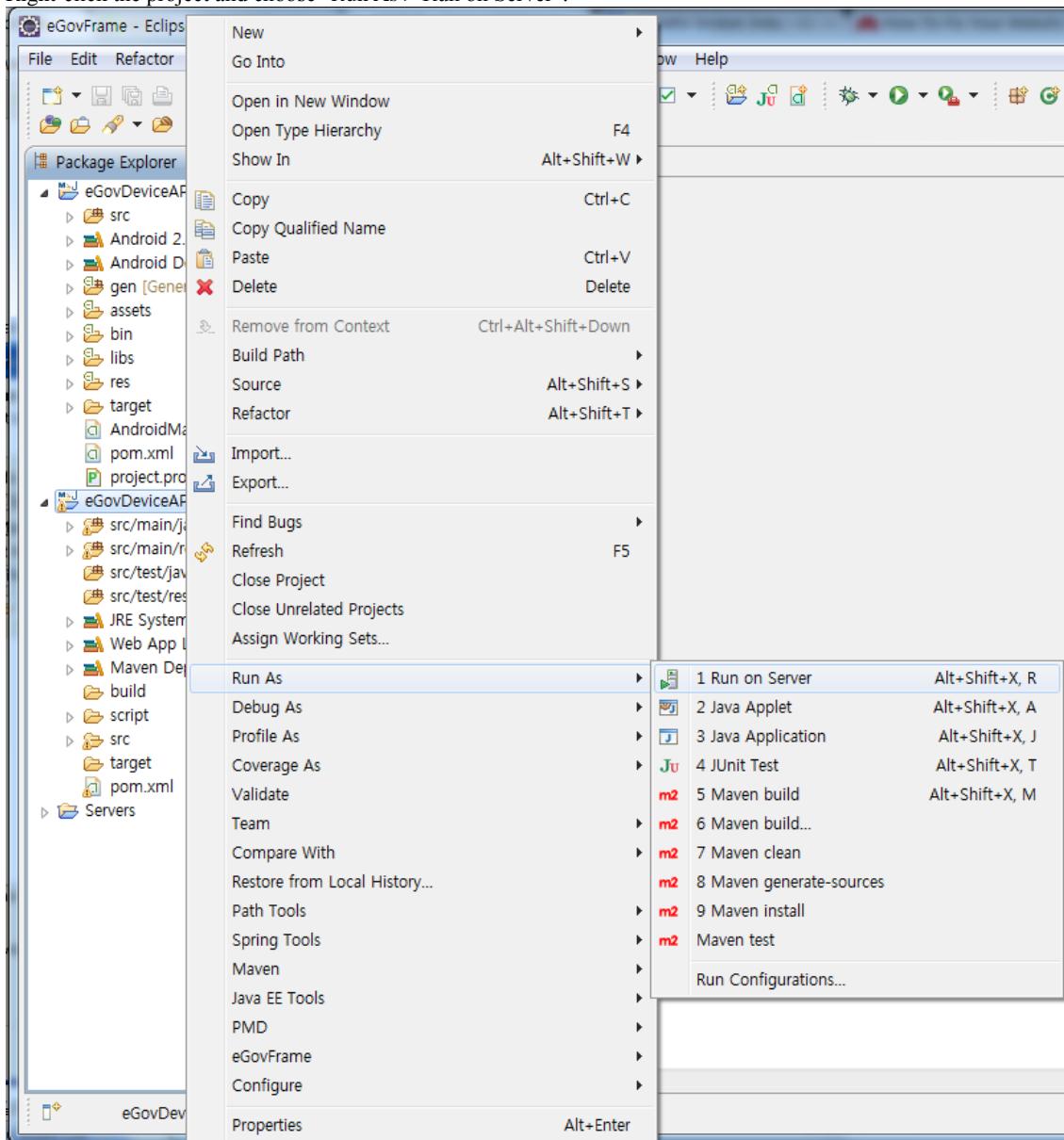
2. Choose Apache > Tomcat v6.0 Server, click on next to move on and click on Download and Install to complete installation.



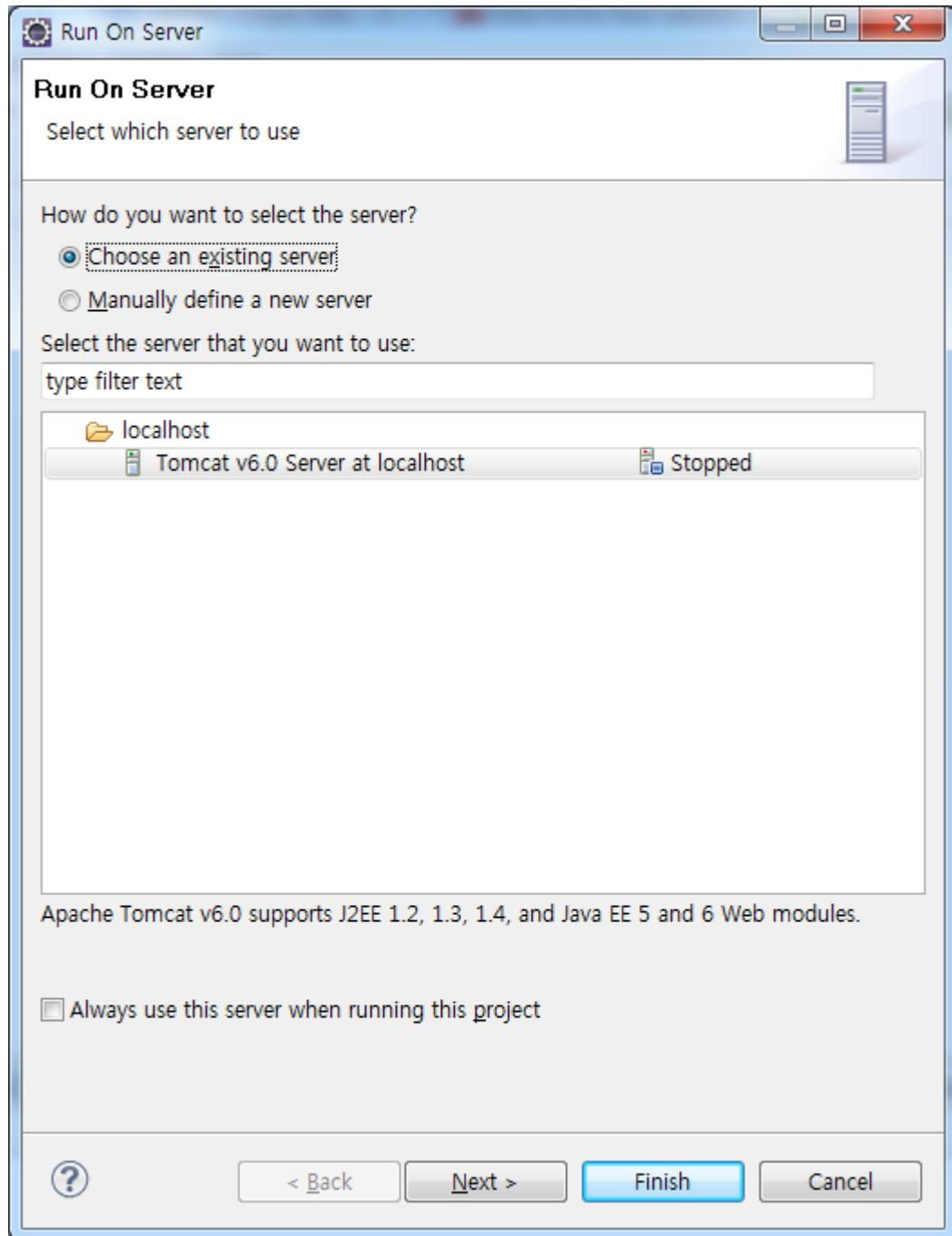
Project Execution

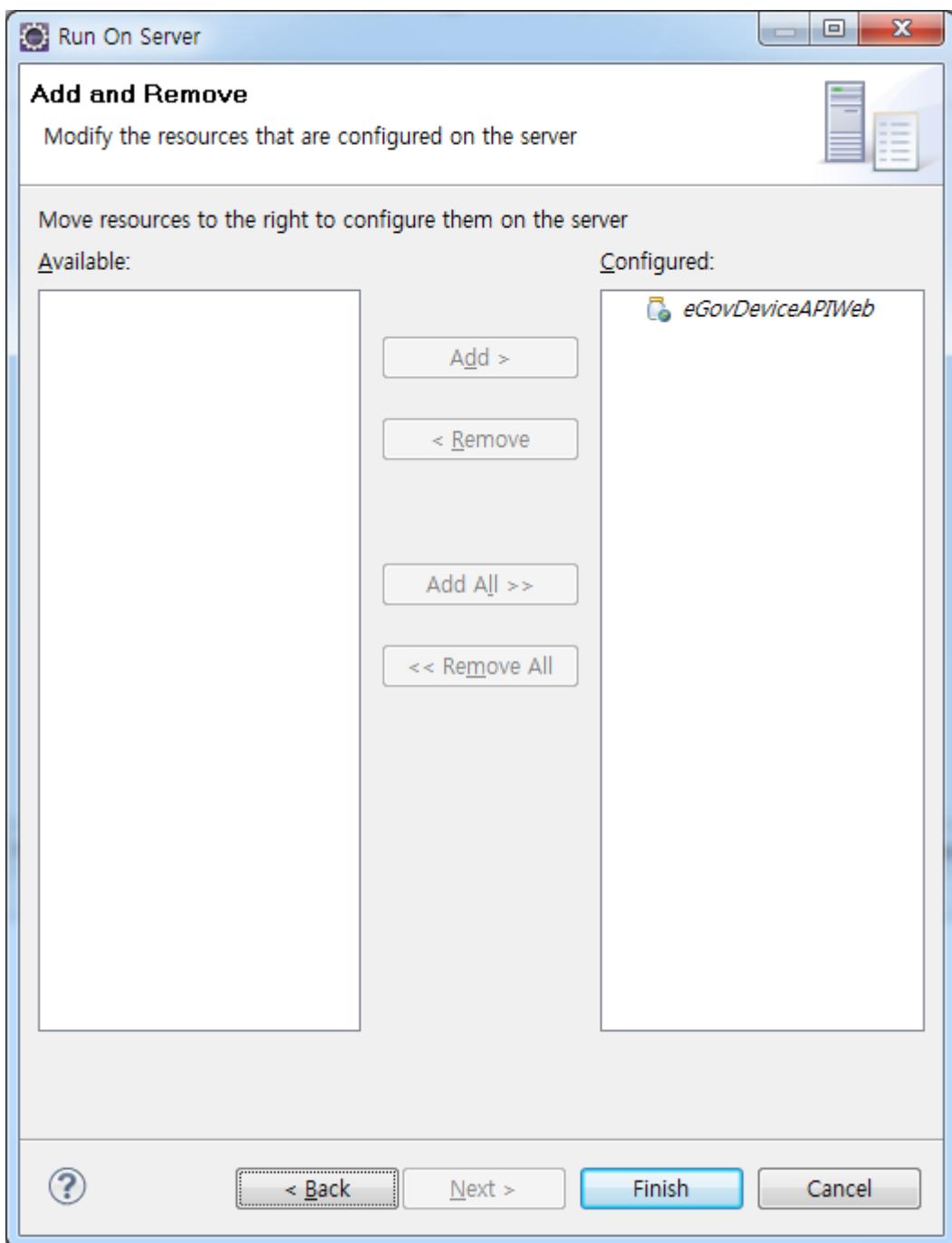
Server Project

1. Right-click the project and choose “Run As > Run on Server”.



2. Choose an existing server, select the server that you have configured in [Server Installation](#), click on Next to move on and add the desired project.

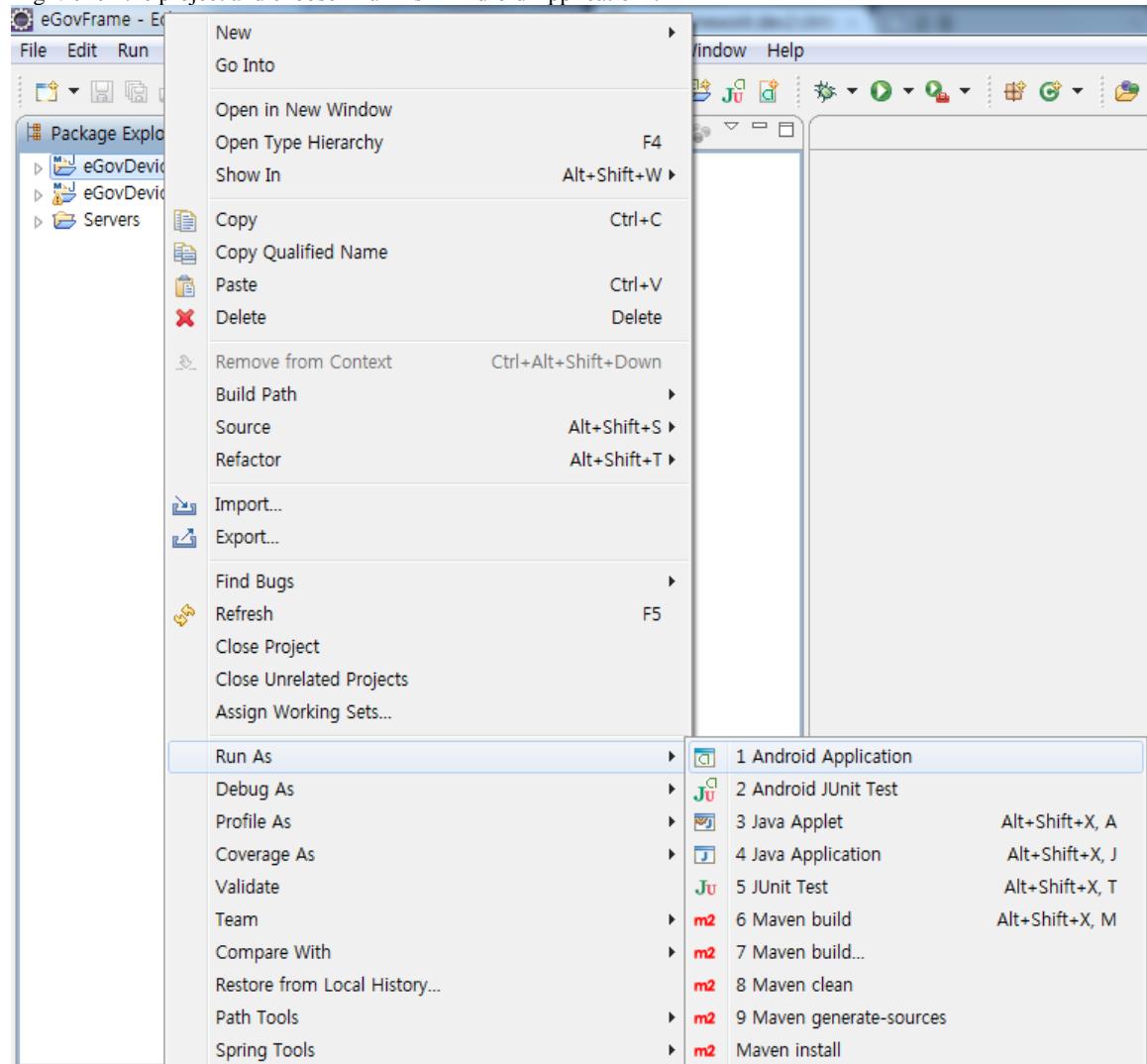




- ✓ When encountering “Could not open JDBC Connection for transaction”, you need to refer to [HSQLDB Configuration Guideline](#) to establish connection to HSQLDB.

App. Project

1. Right-click the project and choose “Run As > Android Application”.



- Check the project is executed as desired.



Other Configurations

Update DB Information

- eGovFramework is compatible with MySql, Oracle, Altibase and Tibero. To update DB Information using MySql,

- you need to update sql-map-config.xml of the desired project as follows:



```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE sqlMapConfig PUBLIC "-//iBATIS.com/DTD SQL Map Config 2.0//EN"
 "http://www.ibatis.com/dtd/sql-map-config-2.dtd">

<sqlMapConfig>
  <!-- <sqlMap resource="egovframework/sqlmap/rte/sample/EgovSample_Sample_SQL.xml"/> -->
  <sqlMap resource="egovframework/sqlmap/rte/sample/EgovSample_Sample_SQL_mysql.xml"/>
  <!-- <sqlMap resource="egovframework/sqlmap/rte/sample/EgovSample_Sample_SQL_oracle.xml"/> -->
</sqlMapConfig>
```

- Update context-datasource.xml and input the desired DB information as follows:



```
<?xml version="1.0" encoding="UTF-8"?>
<beans xmlns="http://www.springframework.org/schema/beans"
       xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
       xsi:schemaLocation="http://www.springframework.org/schema/beans http://www.springframework.org/schema/beans/spring-beans.xsd">

  <!-- hsql -->
  <bean id="dataSource" class="org.apache.commons.dbcp.BasicDataSource" destroy-method="close">
    <property name="driverClassName" value="net.sf.log4jdb.DriverSpy"/>
    <property name="url" value="jdbc:log4jdb:hsqldb:hsqldb://localhost/sampledbs"/>
    <property name="username" value="sa"/>
  </bean> -->

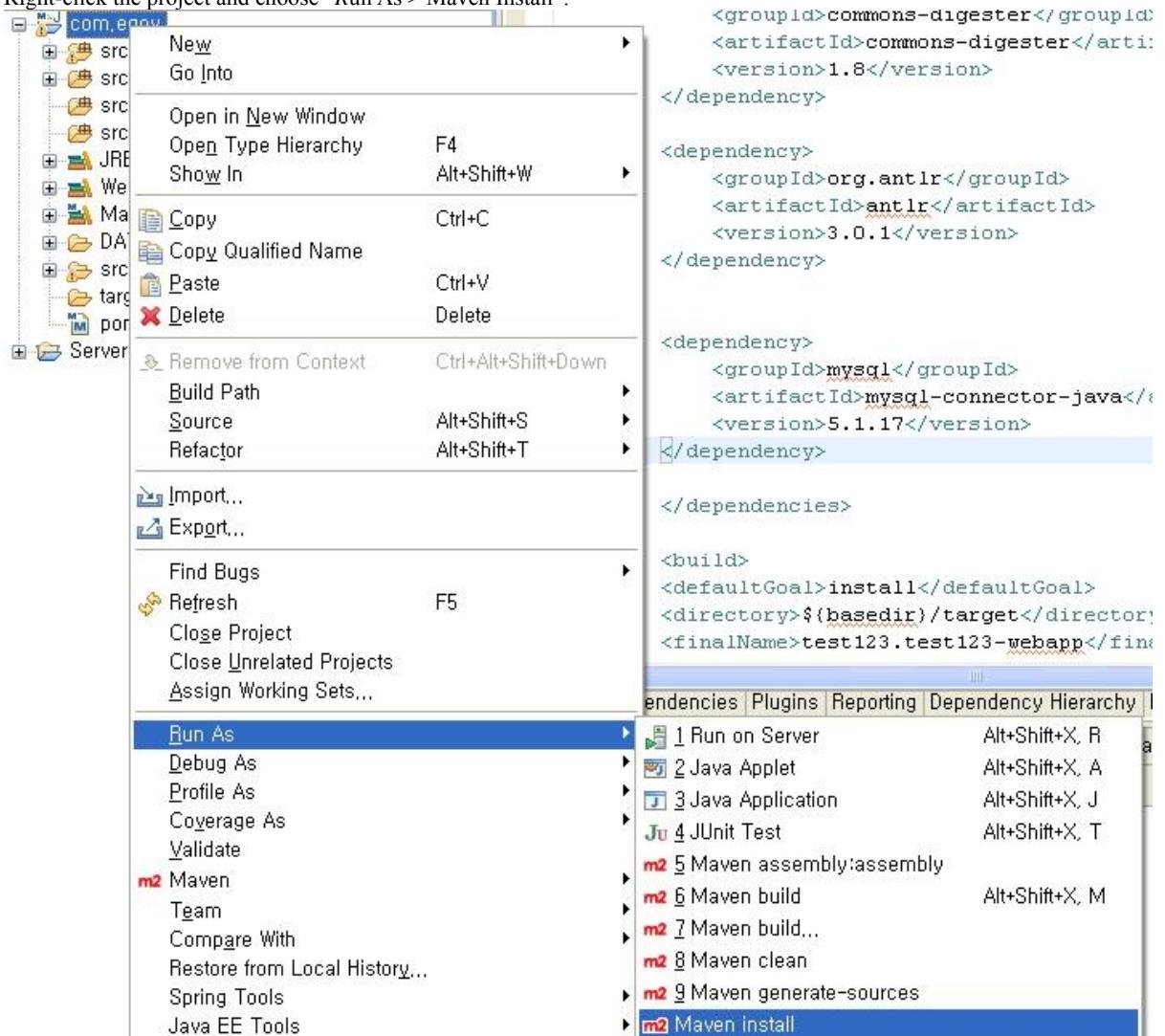
  <!-- mysql -->
  <bean id="dataSource" class="org.apache.commons.dbcp.BasicDataSource" destroy-method="close">
    <property name="driverClassName" value="com.mysql.jdbc.Driver"/>
    <property name="url" value="jdbc:mysql://db2:1621/rte"/>
    <property name="username" value="rte"/>
    <property name="password" value="rte01"/>
  </bean>

  <!-- oracle -->
</beans>
```

- Next, add the dependency in pom.xml as follows:

```
<dependency>
  <groupId>mysql</groupId>
  <artifactId>mysql-connector-java</artifactId>
  <version>5.1.17</version>
</dependency>
```

4. Right-click the project and choose “Run As > Maven Install”.



[Link to Data Source Explorer](#)

See [Introduction to Data Source Explorer](#) for more information.

[Multi-language Support](#)

✓ When you intend to use the English edition of the developmental environment, update `eclipse.ini` in the `eclipse` directory as follows:

-Duser.language=en

-Duser.country=US

```

0 ..... 10 ..... 20 ..... 30 ..... 40 ..... 50 ..... 60 ..... 70 ..... 80 ..... 90 ..... 100
16 openFile
17 -vm
18 C:/Program Files/Java/jdk1.5.0_22/bin/javaw.exe
19 -vmargs
20 -Duser.language=en
21 -Duser.country=US
22 -Dosgi.requiredJavaVersion=1.5
23 -Xms40m
24 -Xmx512m
25 -Dfile.encoding=UTF-8

```

✓ When you intend to use the Korean edition of the developmental environment, update eclipse.ini in the eclipse directory as follows:

-Duser.language=ko
-Duser.country=KR