

Summary

The IDE of the e-government development framework uses m2eclipse as the Maven-integrated plug-in. It uses m2eclipse to provide more effective convenience in carrying out Maven projects.

Description

Features of m2eclipse

1. Execute Maven build in the Eclipse
2. Manage dependency of Eclipse build path based on pom.xml
3. Download automatically dependency declared in pom.xml from a remote repository
4. Provide wizards to create Maven projects
5. Interwork with Maven report repository to provide the dependency quick search function

Environmental settings

In the e-government development framework IDE, m2eclipse, a Maven-integrated plug-in, is installed.

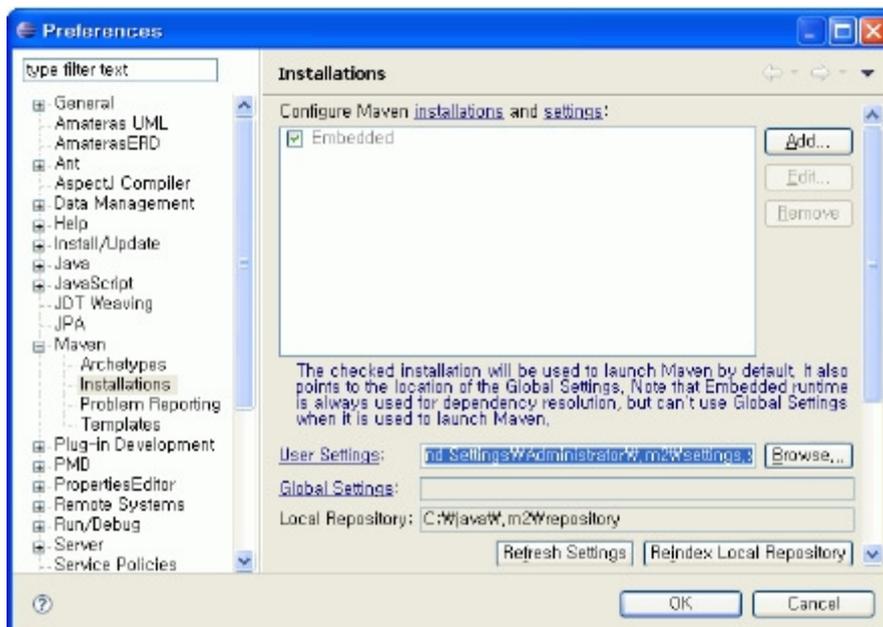
Refer to IDE in Implementation Tool: IDE

1. Maven setup file setting

Move settings.xml, the Maven setup file provided in the e-government framework development environment, to the designated location.

- Default directory: C:\Documents and Settings\Administrator\m2

2. In Maven area of Eclipse Preferences, set the location for settings.xml .



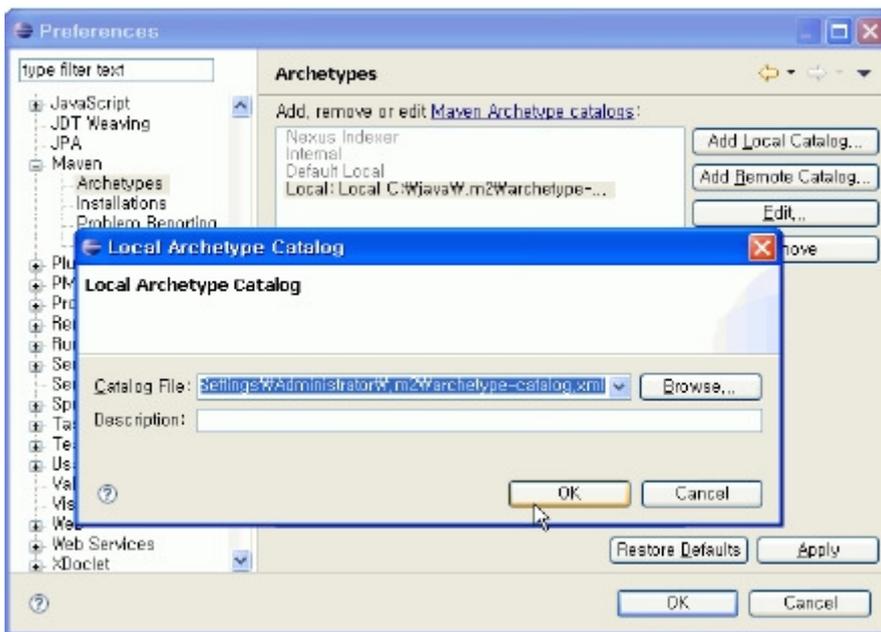
3. The e-government development framework Archetype setup file setting

Move archetype-catalog.xml, Maven Archetype setup file provided in the e-government development framework, to the designated location.

- Default directory: C:\Documents and Settings\Administrator\m2

4. Click Maven area of Eclipse Preferences and add the e-government development framework Archetype in the Archetype menu.

Add archetype-catalog.xml location of the e-government development framework 의 archetype-catalog.xml..



Manual

Create a Maven project

The e-government development framework development environment provides two methods to create a Maven project. You can check the method provided by eGovFramework perspective in the development environment implementation tool manual. Here, we introduce how to use Maven Archetype to create a Maven project.

* Maven project creation wizard: [implementation tool - IDE](#)

1. In order to create a web application, select New → Maven Project in the menu.

Maven 프로젝트 생성

eGovframework에서는 메이븐 프로젝트 생성을 위해 두 가지 방식을 제공하고 있음

- 구현 도구에서 제공하는 **Perspective**를 이용한 Maven 프로젝트 생성
- Maven **archetype**를 이용한 프로젝트 생성
: 'Archetype is a Maven project templating toolkit' - 프로젝트에 특화된 pom.xml 및 resource들을 포함한 Maven 프로젝트 생성

Maven Archetype 종류

- 표준 Archetype
 - maven-archetype-j2ee-simple
 - maven-archetype-quickstart
 - maven-archetype-portlet
- eGovframework Archetype
 - egovframework-maven-webapp

* Maven 제공 Archetype 종류:
<http://repo1.maven.org/maven2/org/apache/maven/archetypes/>

Maven 프로젝트의 archetype 선택

New Maven project
Select project name and location

Create a simple project (skip archetype selection)

Use default workspace location

Location: D:\PROJECT\WegovFramework\workspace **Browse...**

New Maven project
Select an Archetype

Catalog: Local C:\java\m2\archetype-catalog.xml **Configure...**

Filter:

Group Id	Artifact Id	Version
egovframework-maven-archetypes	egovframework-maven-webapp	1.0

configure.. 버튼 클릭으로 제공된 archetype을 선택

2. In the web project creation screen, set groupId and artifactId in the project name input field.

New Maven Project

New Maven project
Specify Archetype parameters

Group Id:

Artifact Id:

Version:

Package:

Properties:

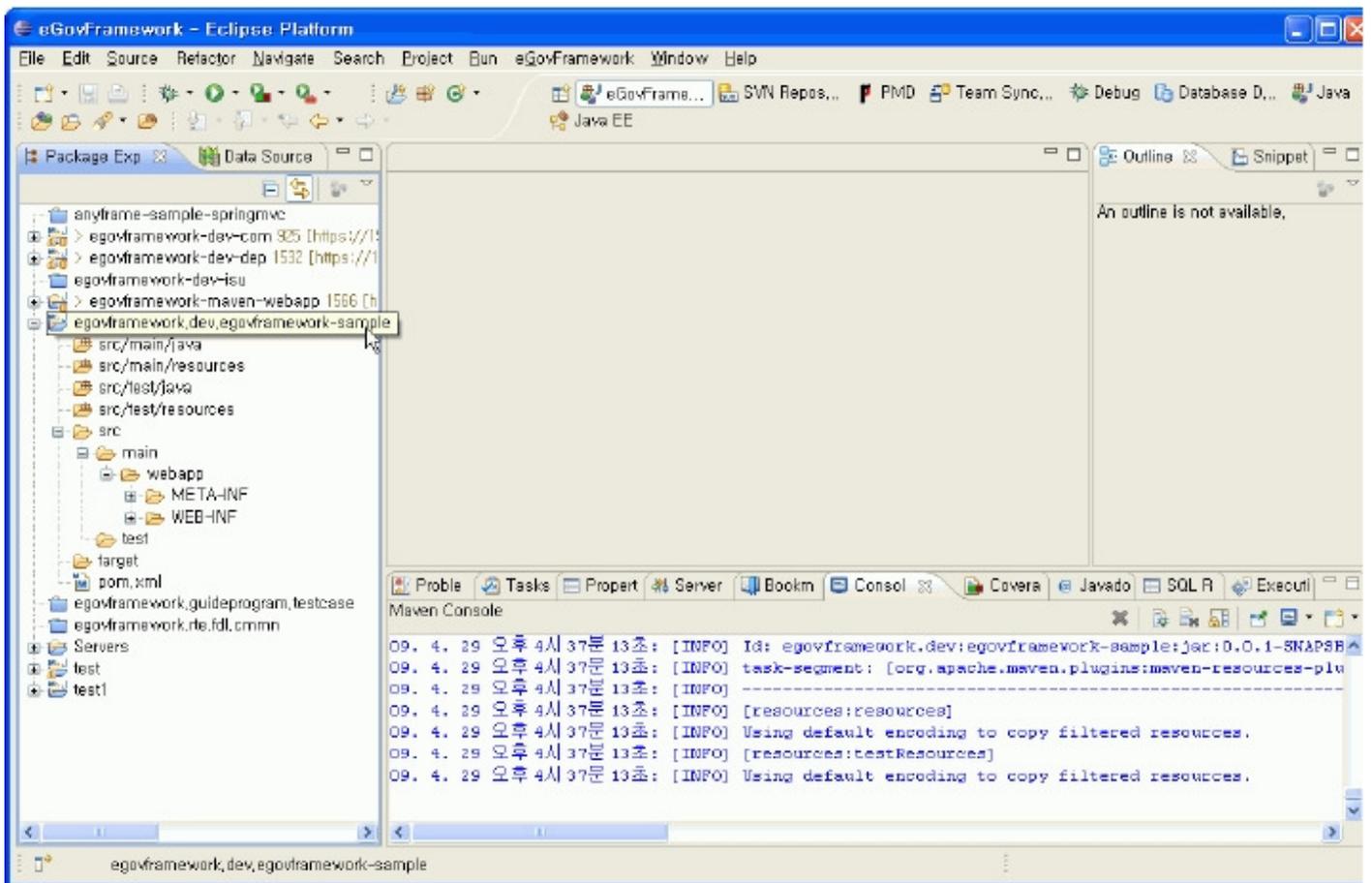
Name	Value

Add..
Remove

▶ **Advanced**

< Back **Next >** **Finish** **Cancel**

4. Check the directory structure of the created Maven web project.



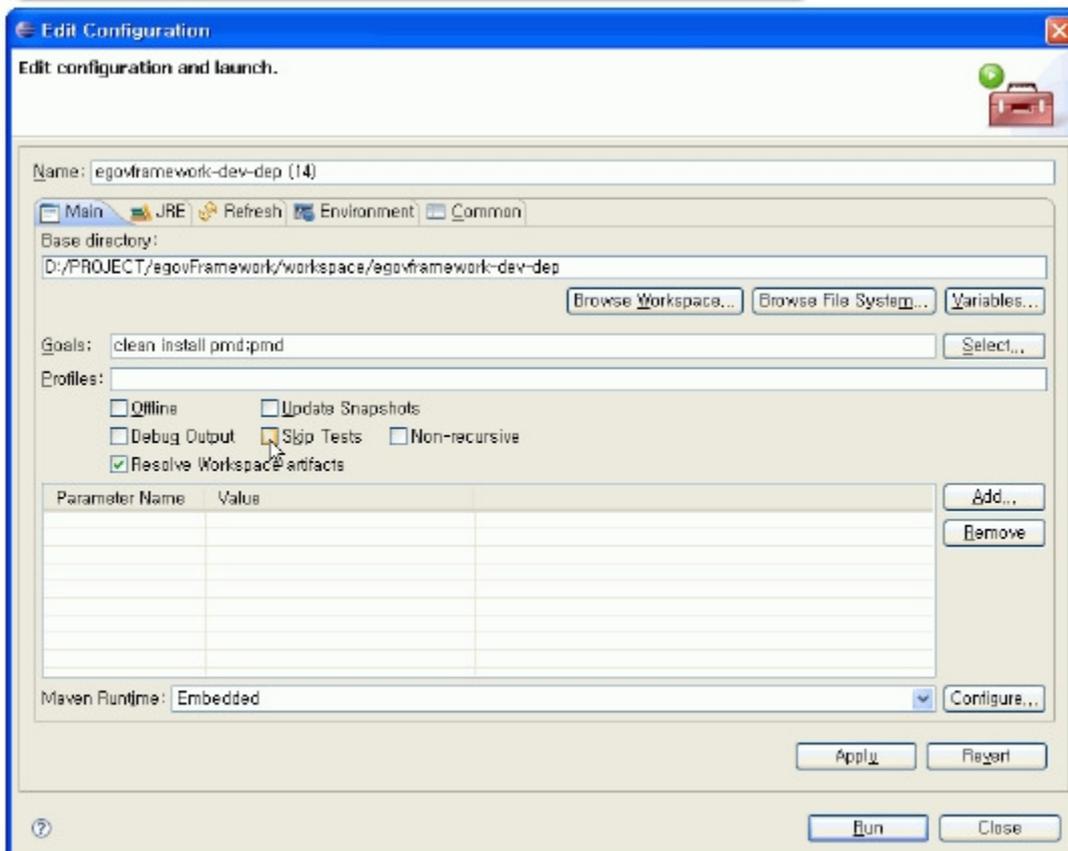
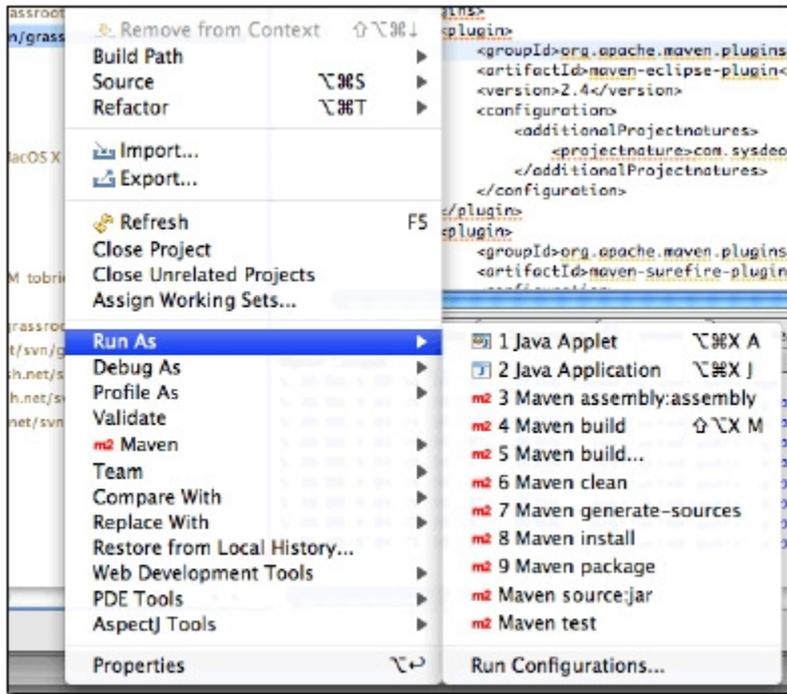
Maven commands of M2Eclipse

Right-click the created Maven project and select Maven to carry out basic Maven commands provided in m2eclipse.

1. Select 'Update Dependencies' command to update the dependency settings declared in pom.xml.
2. Has the Maven project checked out and use Maven -> Update Project Configuration command. Updates the environment and dependencies of the checked-out Maven project to suit the local environment.

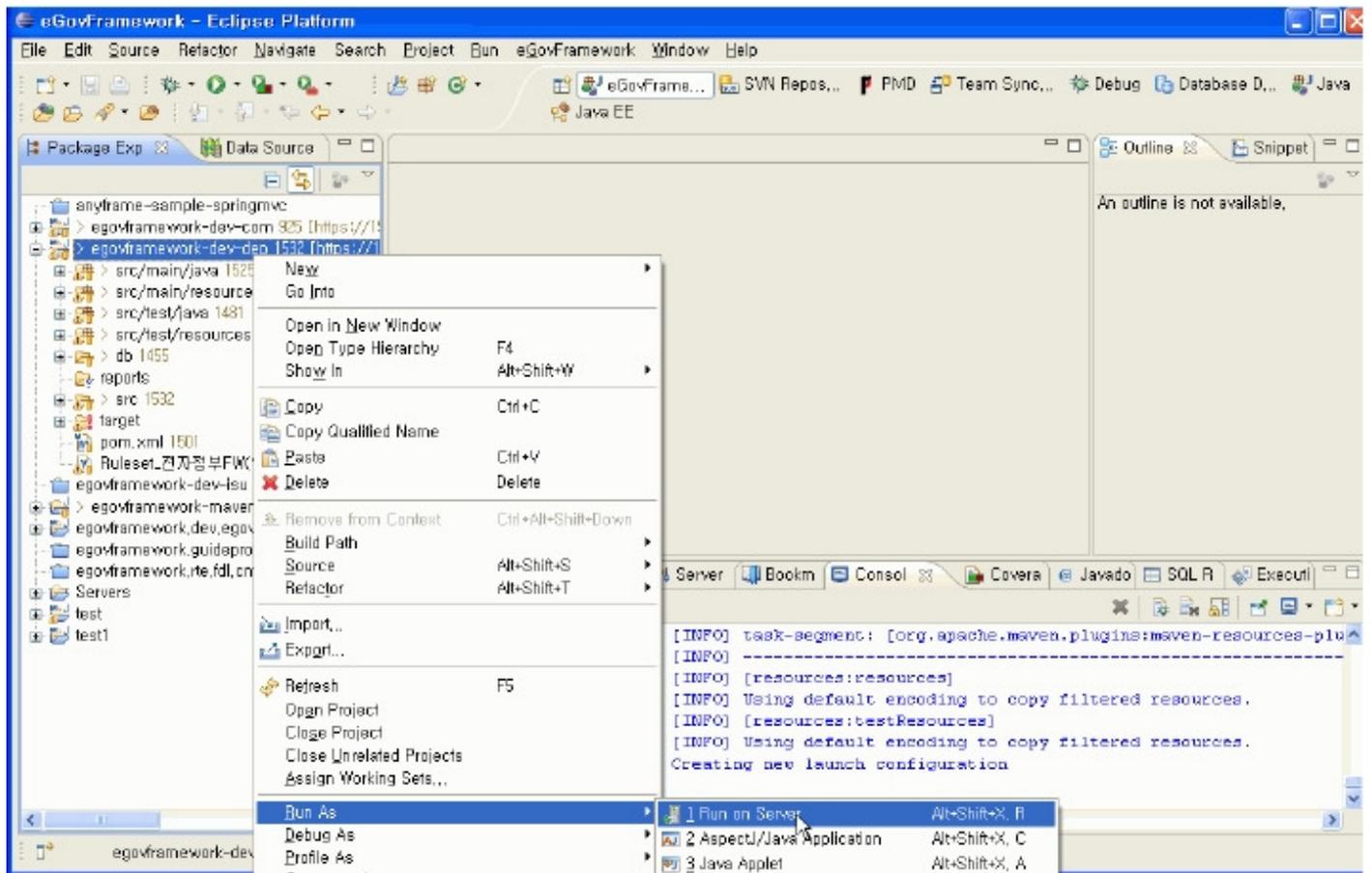
Execute Maven build

You can execute Maven commands from Run As or debug as menu and select 'Maven build...' command to define the goal of the build directly.



Execute Maven project

Use Run AS → clean install command to build a Maven web project and then use Run On Server command to execute the web project.

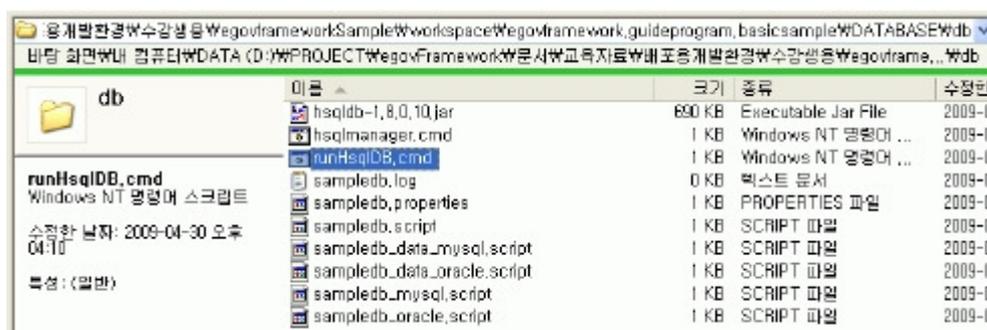


Run Maven guide program

The development environment provides egovframework.guidesample project as a guide program.

1. Start up the sample DB

Provides HSQL DB, an embedded DB, and runs runHsqlDB.bat.



Start up the DB

```
C:\WINDOWS\system32\cmd.exe
D:\PROJECT\HegouFramework\문서\교육자료\배포용개발환경\수강생용\HegouFramework\sample\workspace\HegouFramework\guideprogram\basic\sample\DATABASE\db>java -cp ./hsqldb-1.8.0.10.jar org.hsqldb.Server -database.0 sampledb -dbname.0 sampledb
[Server@1270b73]: [Thread@main.5.main]: checkRunning(false) entered
[Server@1270b73]: [Thread@main.5.main]: checkRunning(false) exited
[Server@1270b73]: Startup sequence initiated from main() method
[Server@1270b73]: Loaded properties from ID:WPROJECT\HegouFramework\문서\교육자료\배포용개발환경\수강생용\HegouFramework\sample\workspace\HegouFramework\guideprogram\basic\sample\DATABASE\db\server.properties
[Server@1270b73]: Initiating startup sequence...
[Server@1270b73]: Server socket opened successfully in 62 ms.
[Server@1270b73]: Database [index=0, id=0, db-file:sampledb, alias=sampledb] opened successfully in 1142 ms.
[Server@1270b73]: Startup sequence completed in 1204 ms.
[Server@1270b73]: 2007-05-11 10:37:40.717 HSQLDB server 1.8.0 is online
[Server@1270b73]: To close normally, connect and execute SHUTDOWN SQL
[Server@1270b73]: From command line, use !Ctrl+C to abort abruptly
```

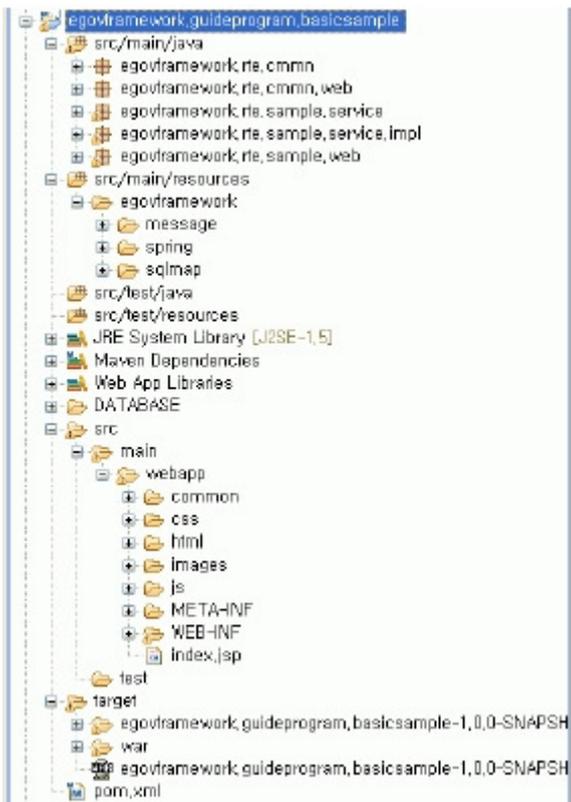
2. Guide program basic sample

2.1 basic sample's directory structure

In Eclipse, use 'Import project' to import the basic sample project and run m2 Maven -> update project configuration.

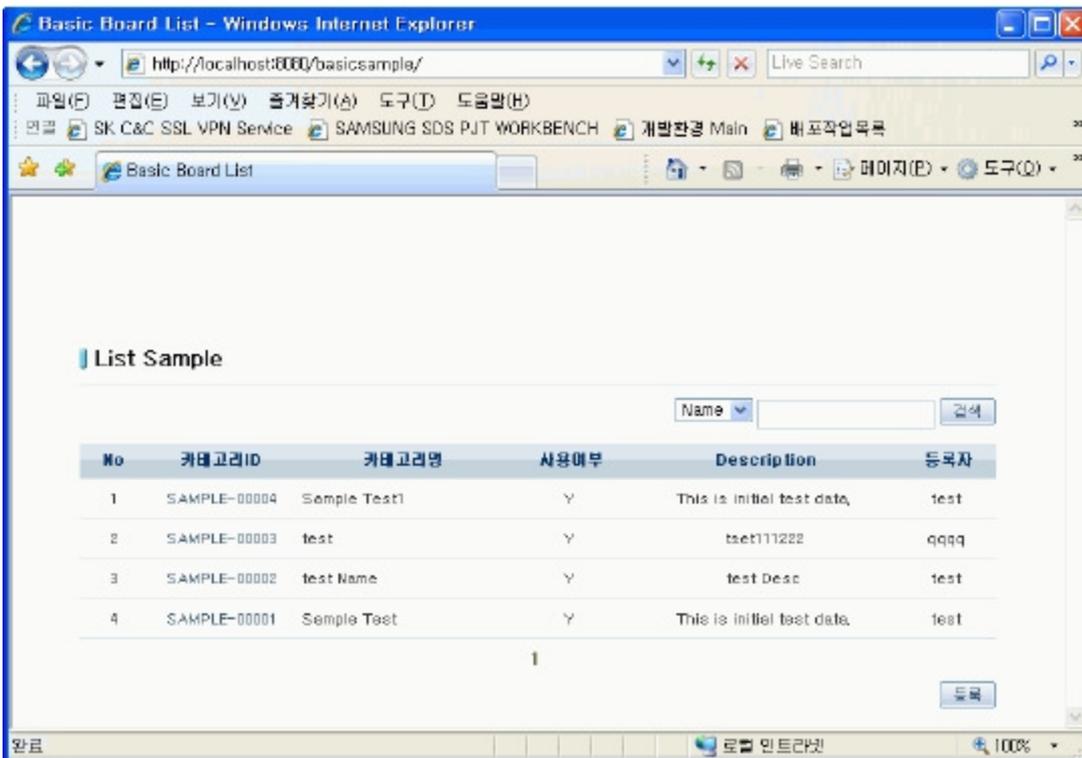
Run 'Run As -> clean / Run As -> install' to carry out the basic sample project build and packaging.

Under /target directory, you can find Maven build products.



2.2 Start up the basic sample

Use 'Run As -> Run On Server' command to run the basic sample.



References