# 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. Mange 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 .

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3.	The e-government	development	framework	Archetype	setup	file s	ettina
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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

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

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# Manual

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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

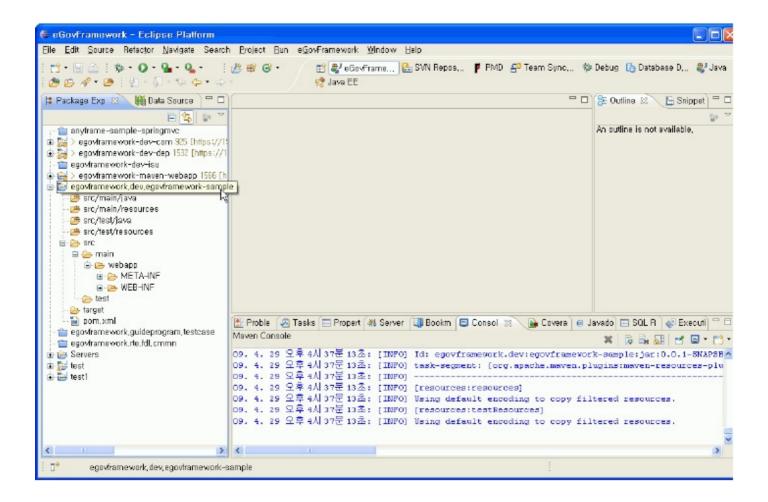
1. In order to create a web application, select New  $\rightarrow$  Maven Project in the menu.



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

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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.

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## Functions provided by m2eclipse menu

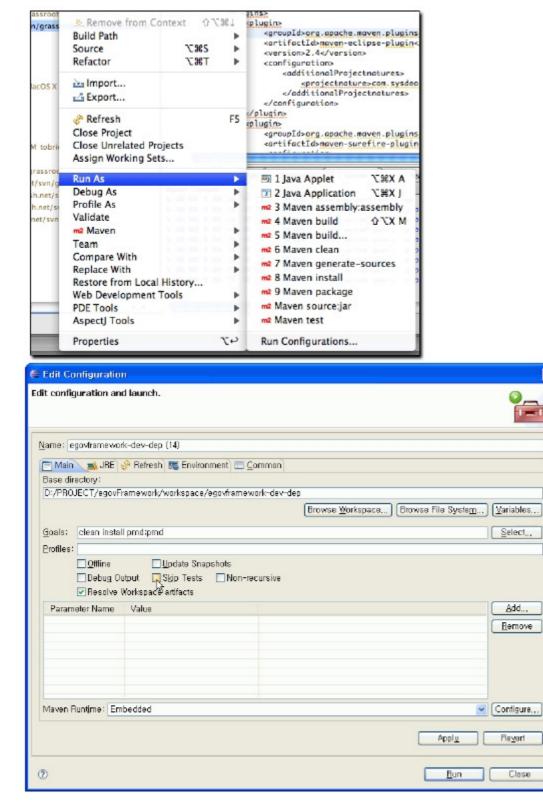
- 1. Adds dependency and Maven plug-ins
  - Provides pom.xml editor
- 2. Updates dependency, snapshots and source folder
- 3. Creates Maven module
  - Provides module project creation wizard function
- 4. Downloads source codes
  - Download artifact source codes from remote repository; effective in debugging.
- 5. Opens web pages based on the URLs of project web pages and CI server set up in pom.xml
- 6. Controls Eclipse workspace resolution function
  - Controls interworking between Maven projects registered in the workspace, if intending to disable, install
  - the project to interwork to the local repository and make reference to it by declaring dependency.
- \* Usage tips

Select 'Update Dependencies' command to update the dependency settings declared in pom.xml.
 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

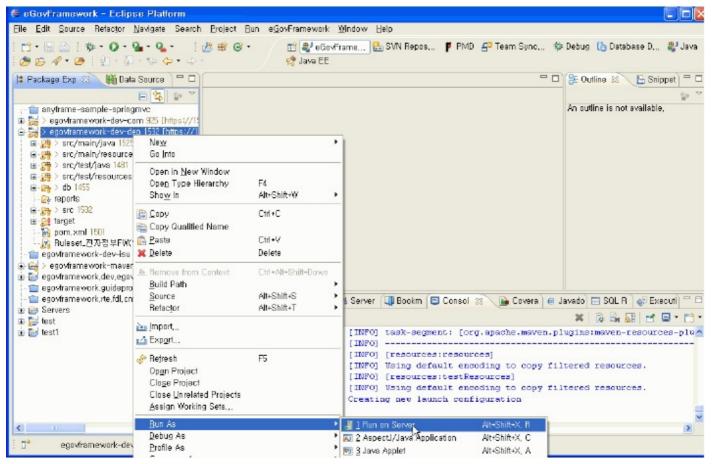
You can execute Maven commands from Run As or debug as menu and select 'Maven build...' command to define the goal of the build directly.



## Execute Maven project

Use Run AS  $\rightarrow$  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.guideprogram.basicsample project as a guide program.

#### 1. Start up the sample DB

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

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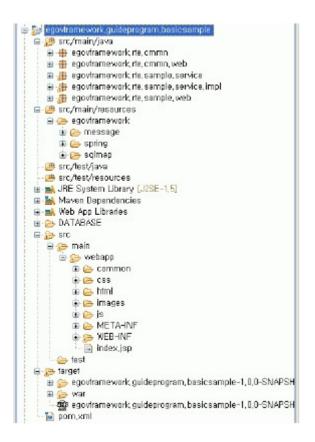
Start up the DB

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2. Guide program basic sample

2.1 basic sample's directory structure In Eclipes, 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.

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# References