How to build Dexter

How to build and deploy Dexter

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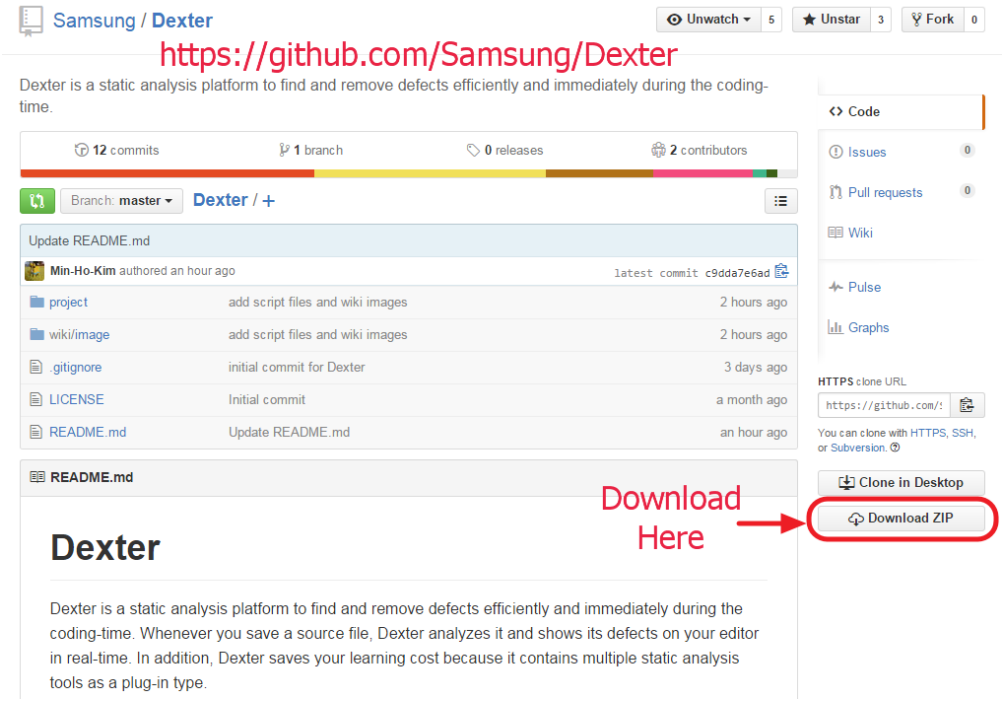
1. Prerequisites

- Install JDK: over 7 update 40
- install Gradle: over 2.5
- install NodeJs: over 0.12.1
- download and unzip Eclipse RCP/RAP version : over Juno(4.2)
  - We will import and build Dexter Projects with the Eclipse
- download Dexter source codes: https://github.com/Samsung/Dexter



(*) I downloaded D:/DEV/Dexter

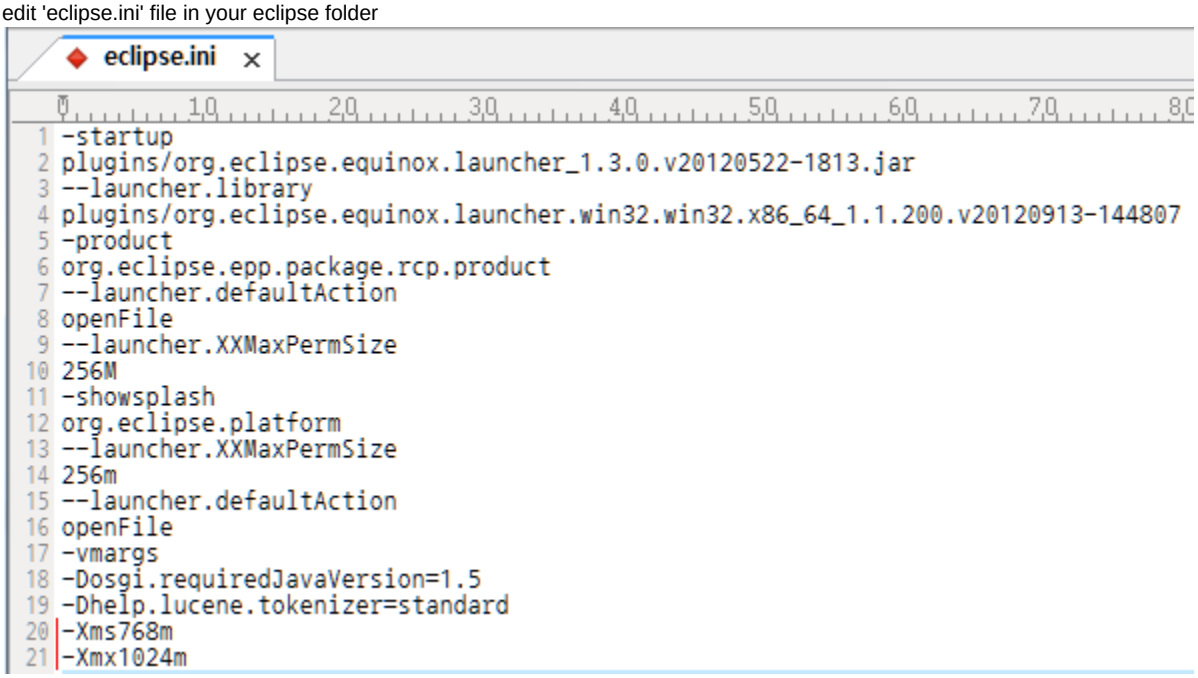
- Folder Description

folder	description	etc.
project/core	Dexter Core Modules Group - main entities, biz logic - static analysis plugin management - utilities, etc	java, eclipse plugin, gradle, ant
project/client	Dexter Client Modules Group - supports Eclipse and Source Insight - eclipse features	java, eclipse plugin/rcp, ant
project/plugin	Static Analysis Plugins Group - dexter-cppcheck for cppcheck - dexter-findbugs for findbugs	java, eclipse plugin, ant
project/common-lib	Libraries that used in Dexter but, can't find in Maven Central Repository	jar

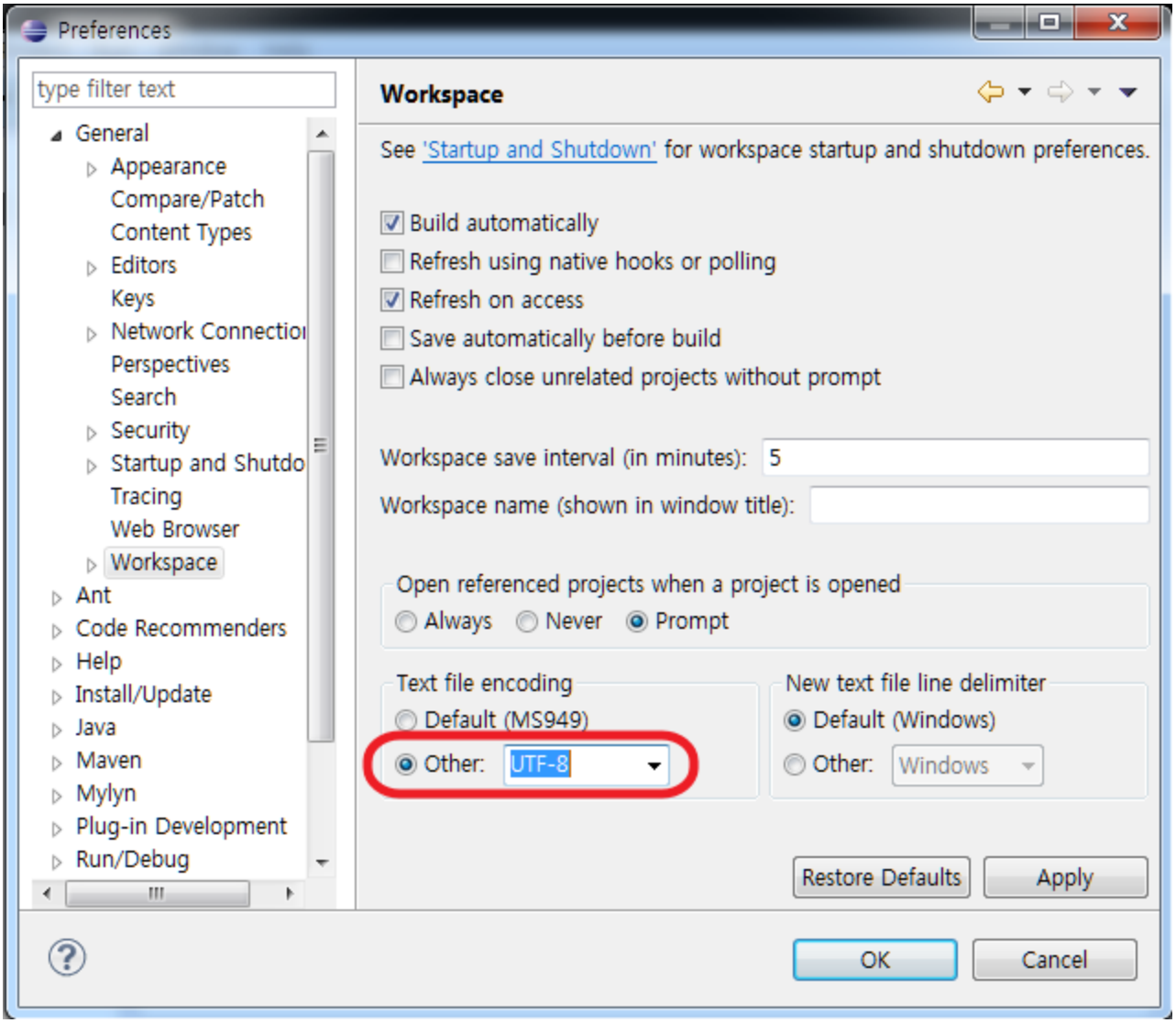
project/script	Script Group - Dexter database creation or deletion - macro file for Source Insight	*.sql, *.em
project/lic	License Files Group	*.txt

2. Import Dexter Projects into Eclipse

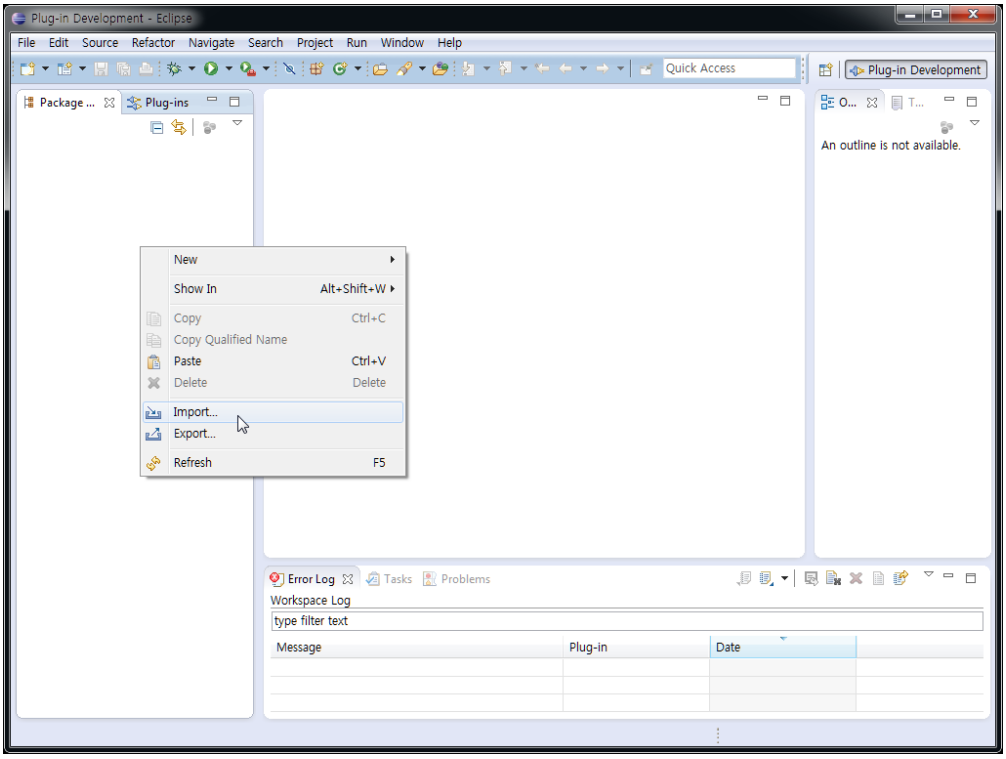
- edit 'eclipse.ini' file in your eclipse folder



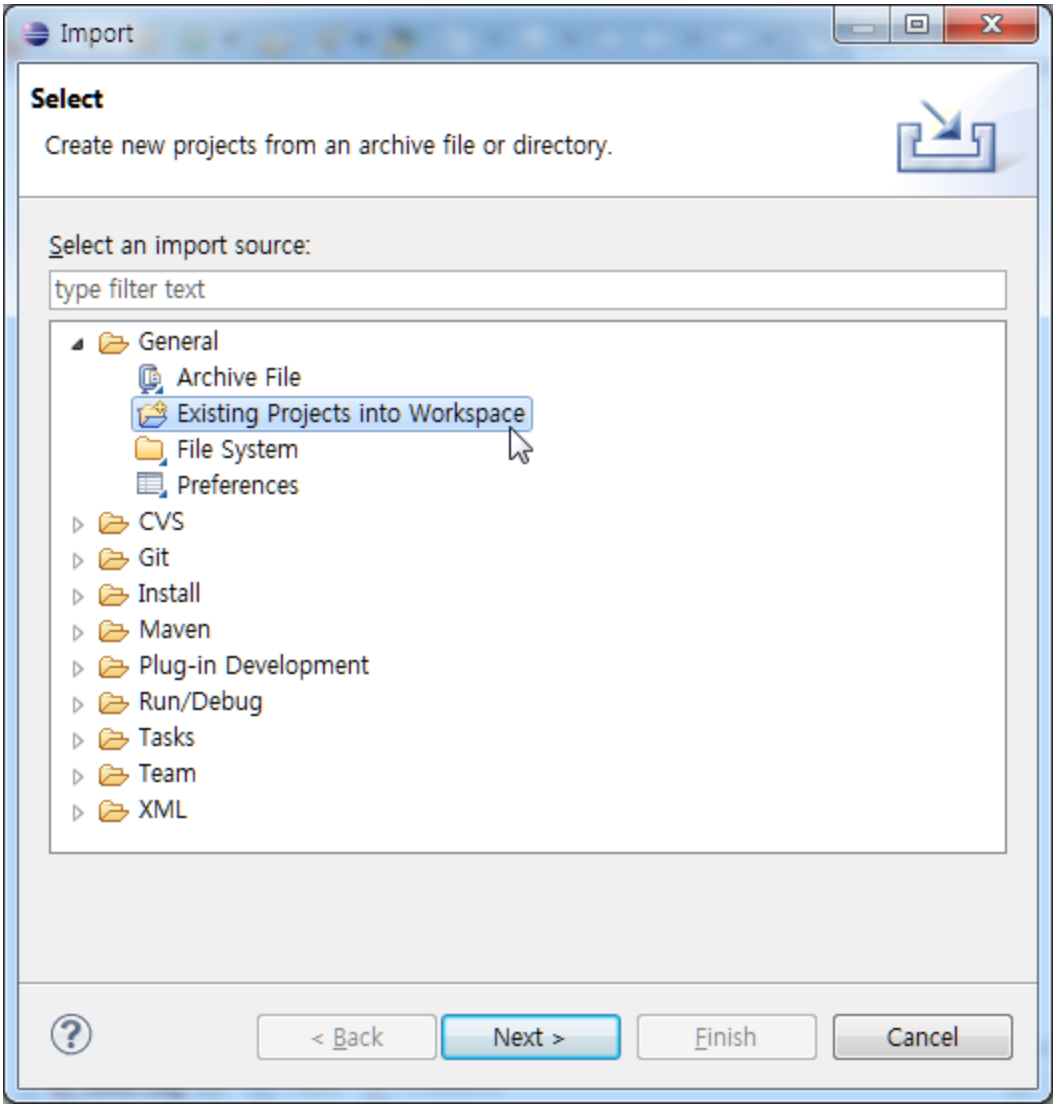
  - --launcher.XXMaxPermSize256M
  - --Xmx1024m
- run eclipse
- change encoding to 'UTF-8': top menu > Preferences > General > Workspace



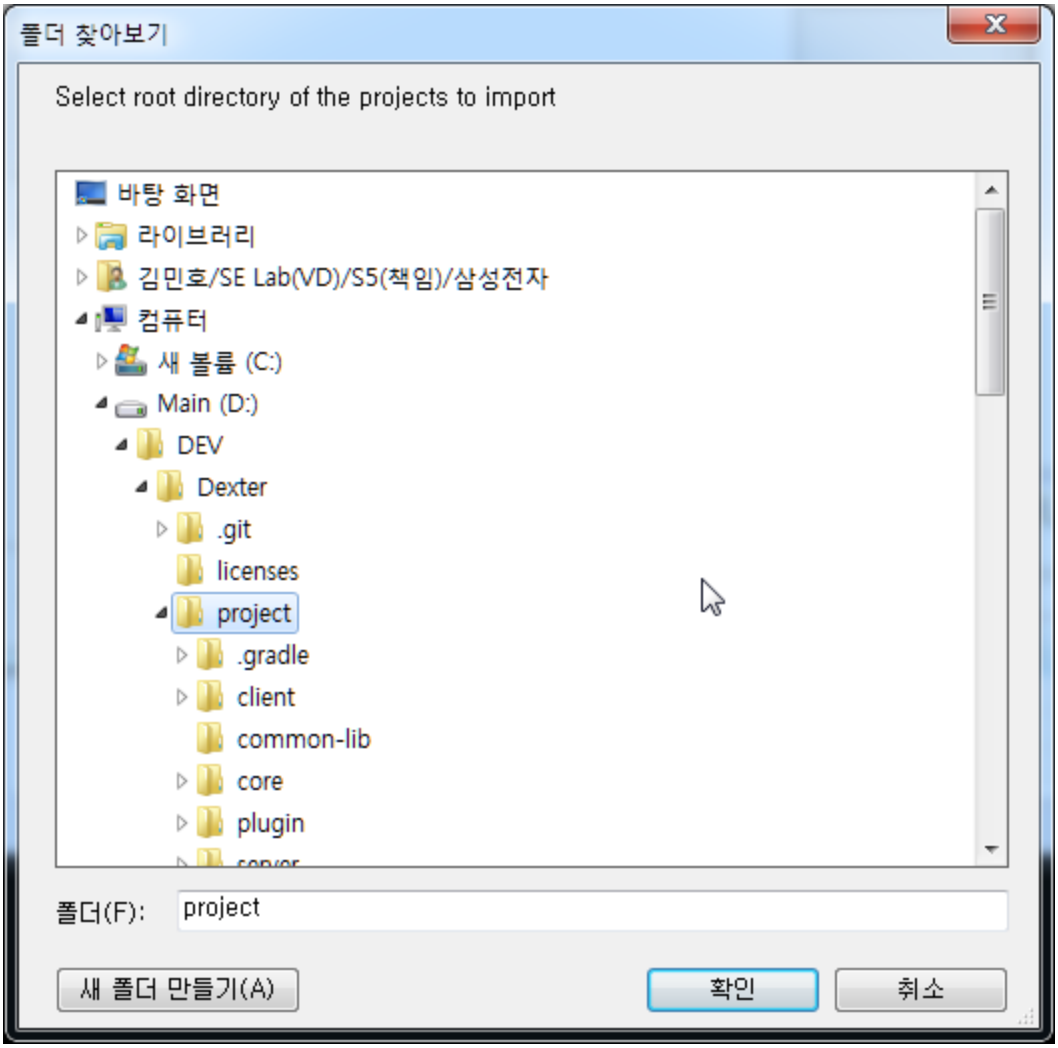
- if you want to test a clean eclipse rcp, you can add target platform in Preferences (optional)
- click 'Import' menu on the Package Explorer View.



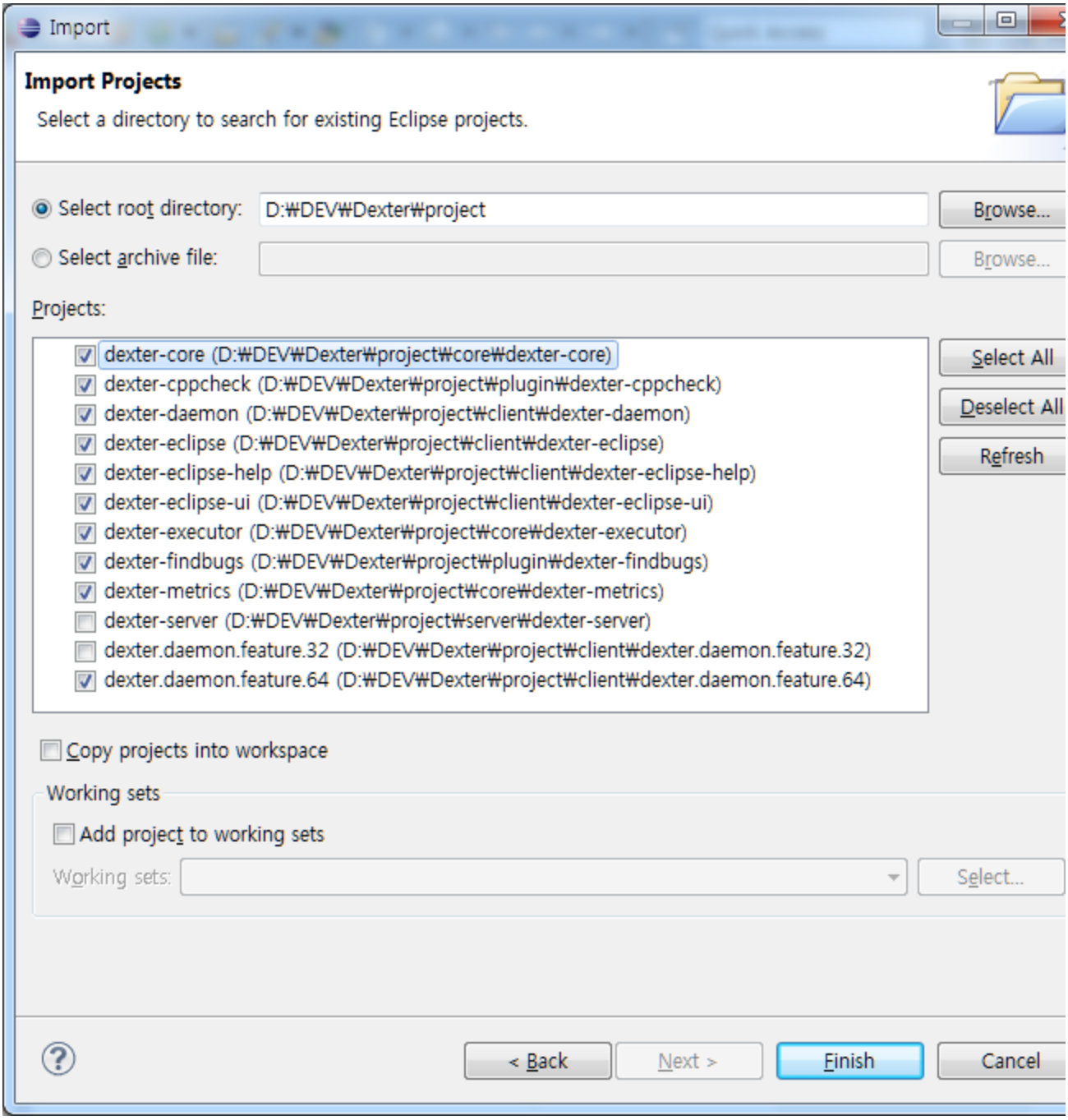
- select 'Existing Projects into Workspace" item



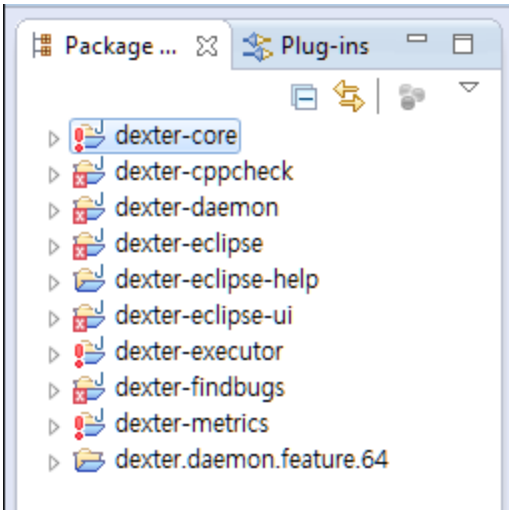
- select your project folder that you downloaded: (* in my case: D:/DEV/project)



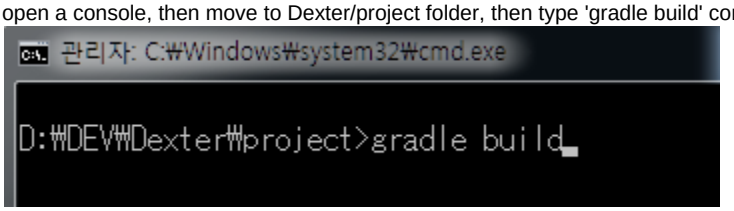
- check projects that you will use (except dexter-server project)



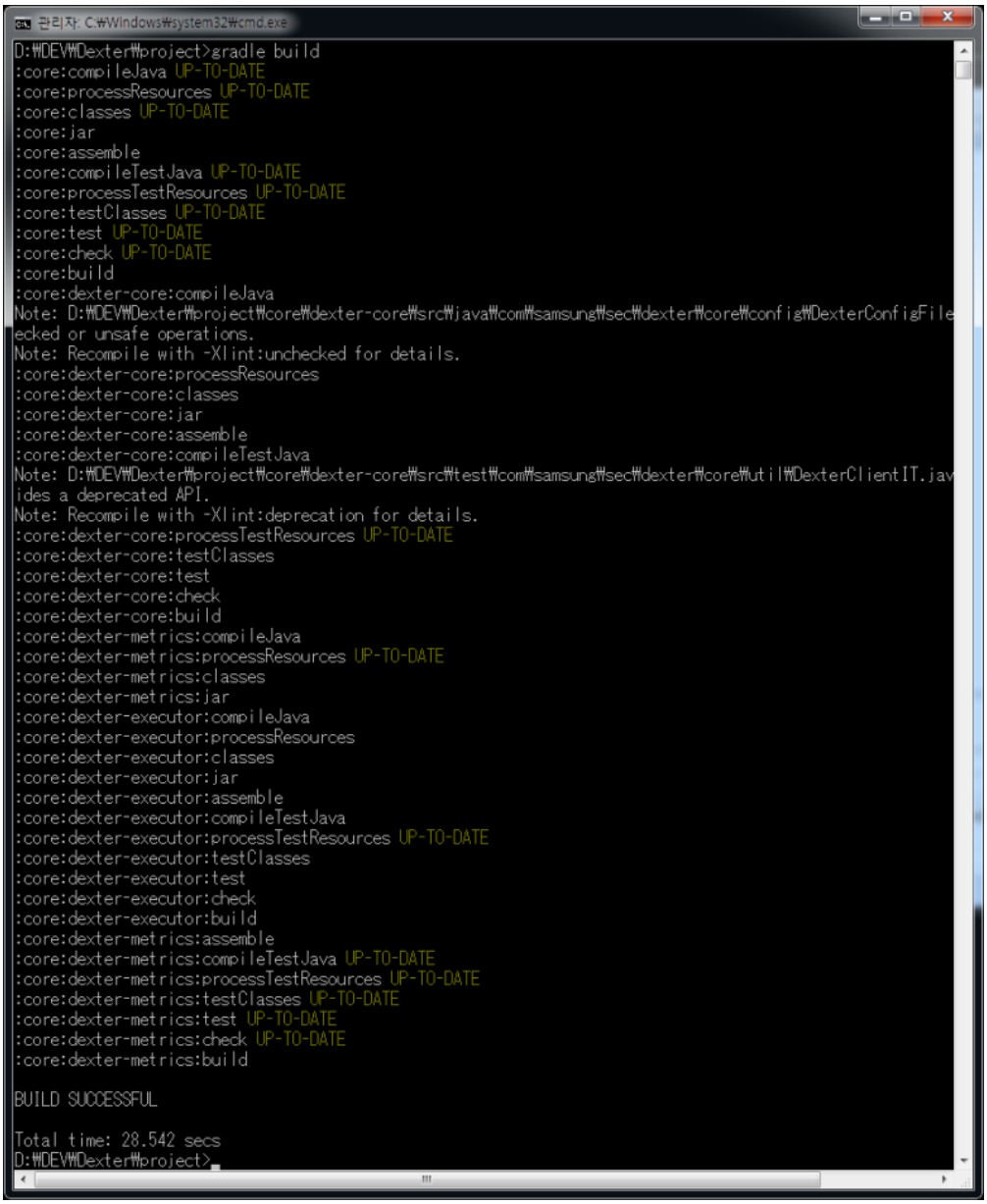
- click 'Finish' button
- you will see the 'error' marks on all of the projects, because there are no library files yet



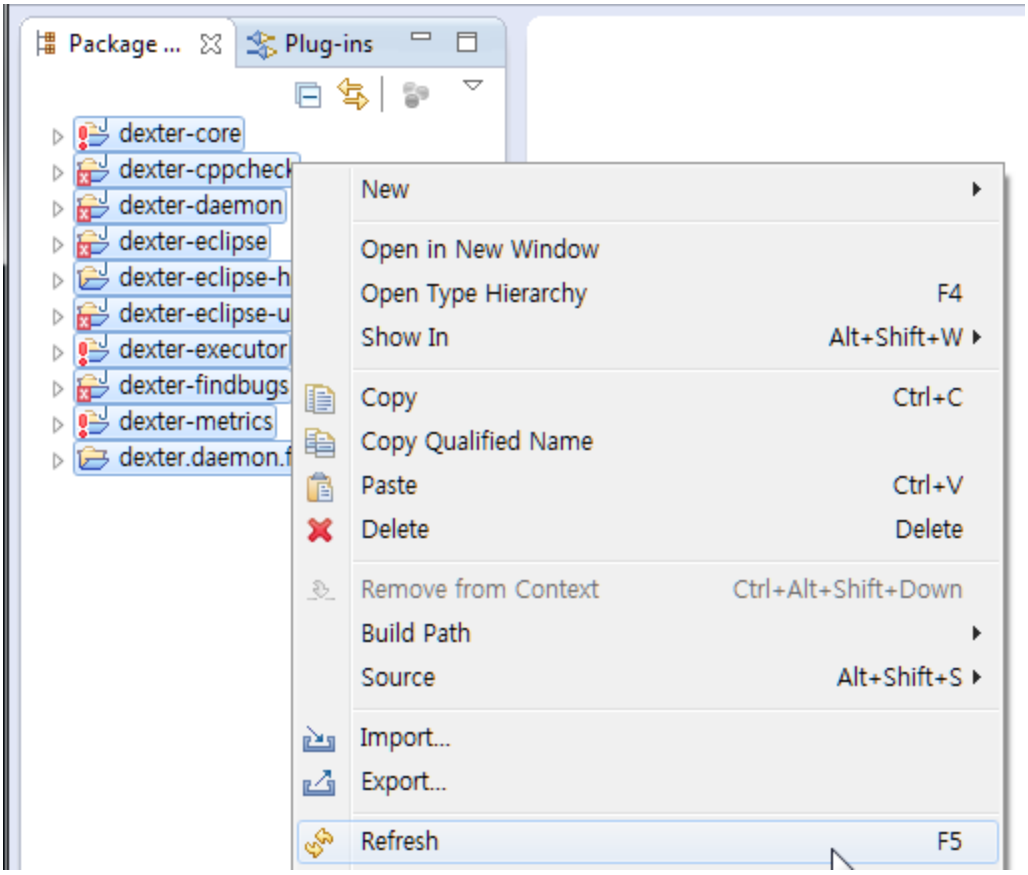
- open a console, then move to Dexter/project folder, then type 'gradle build' command



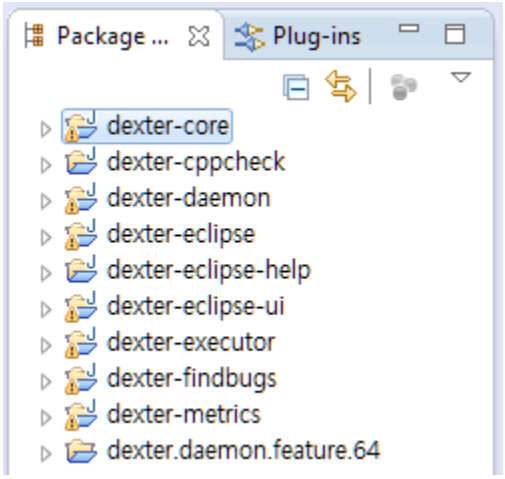
- it will download libraries that we need



- select all projects and refresh them

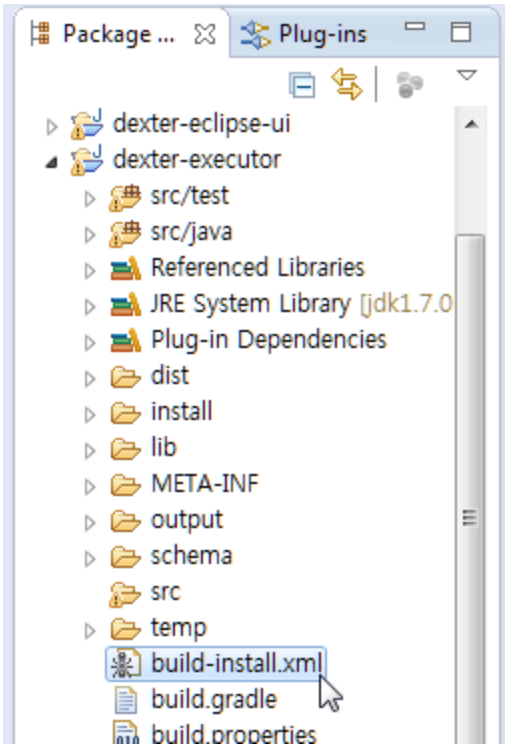


- now, it will be fine

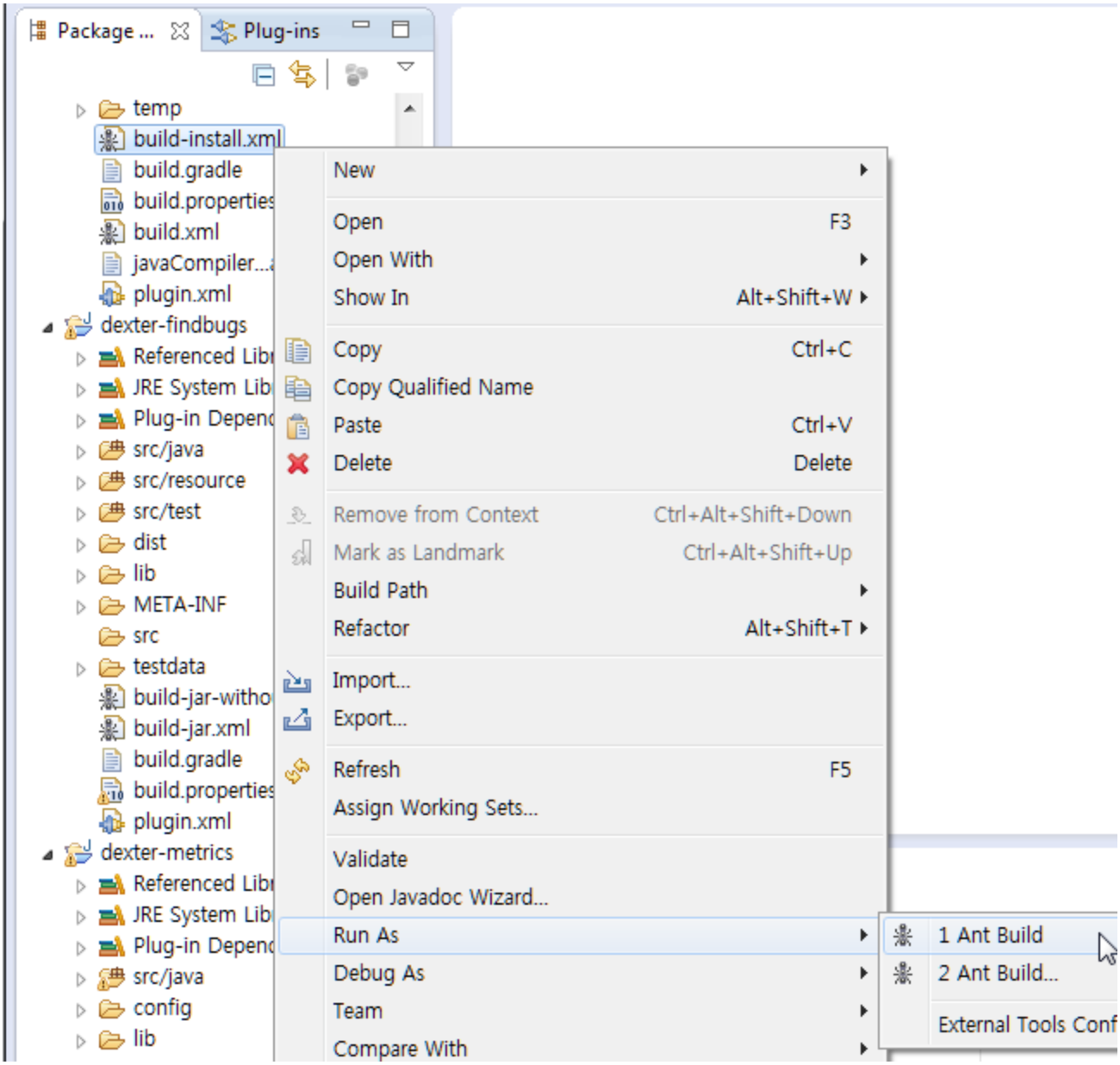


3. Build Dexter CLI

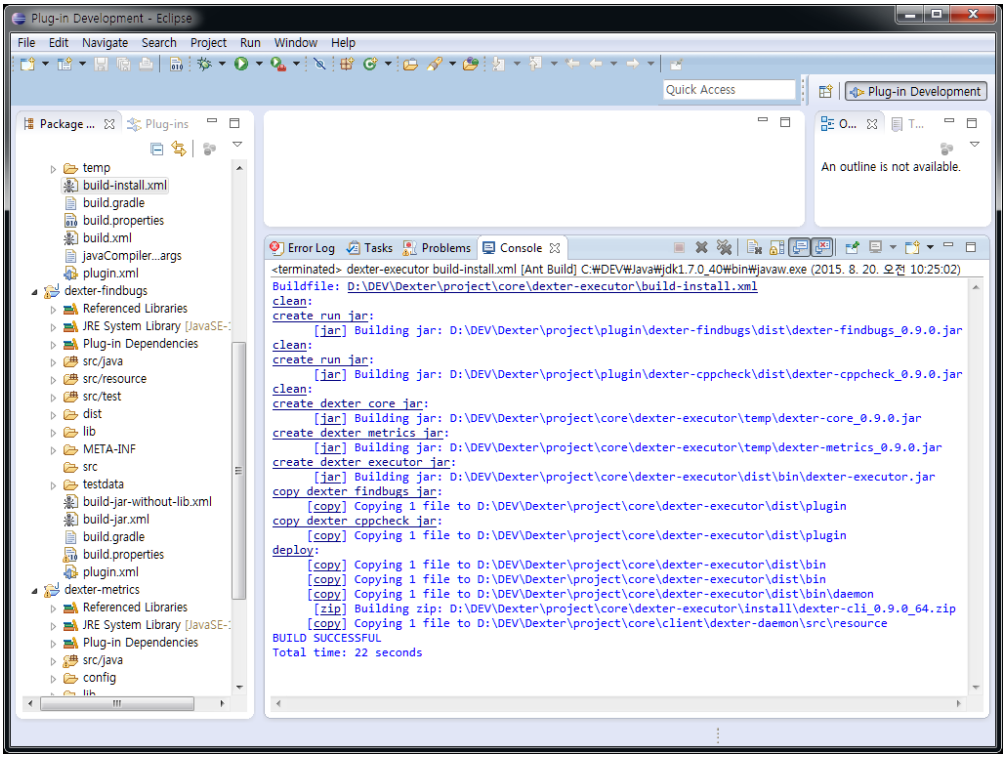
- open dexter-executor project



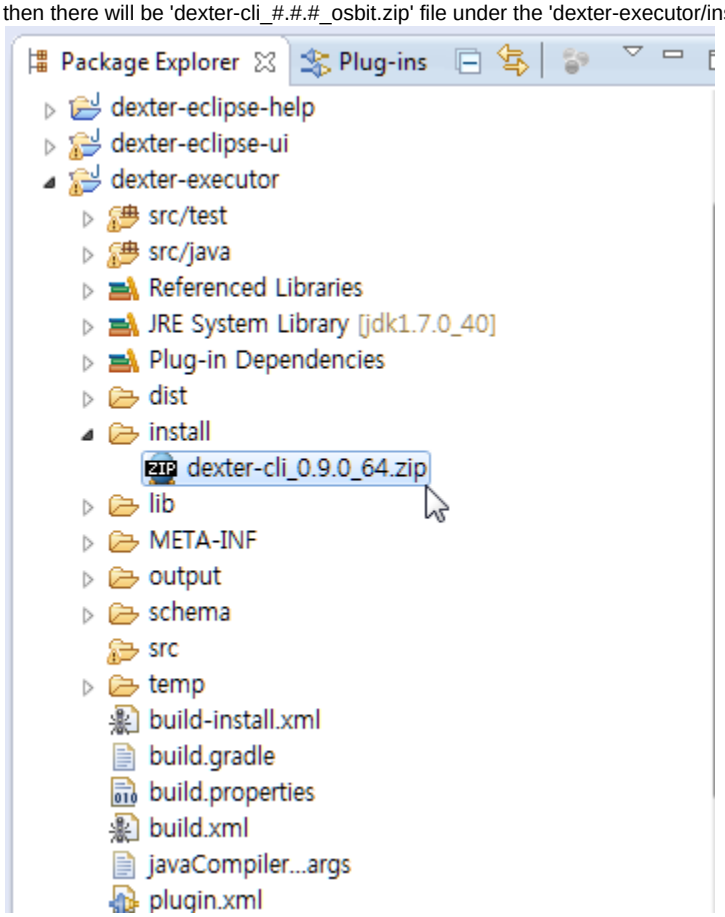
- select 'build-install.xml file, then 'Run As' and 'Ant Build'



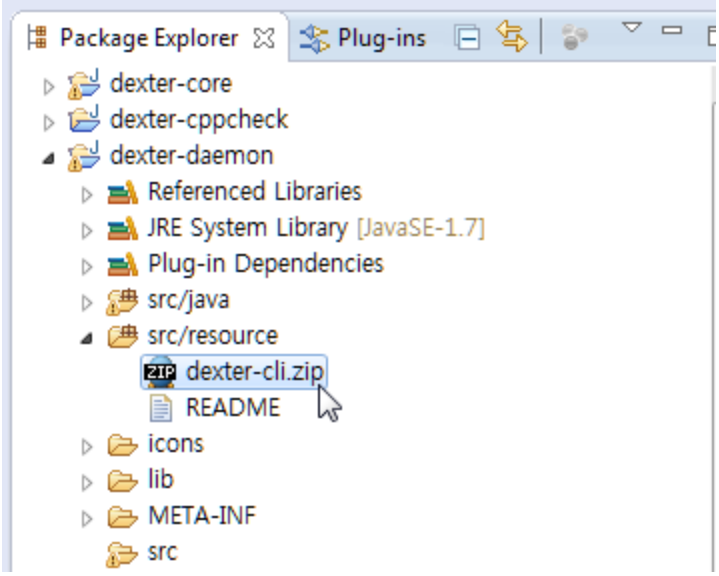
- if build is fine, you will see the "Build SUCCESSFUL" message on the Console view



- then there will be 'dexter-cli_#.#.#_osbit.zip' file under the 'dexter-executor/install' folder

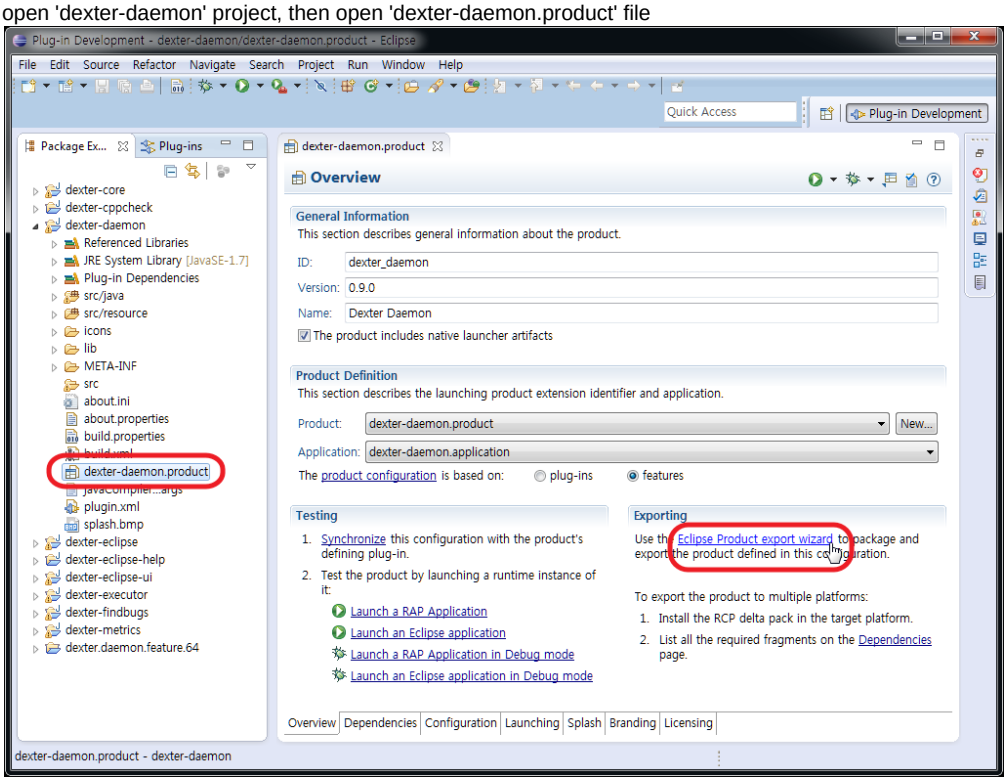


  - you can use the zip file for Dexter CLI (refer to "Dexter CLI Guide")
- also same file is copied to 'dexter-daemon/src/resource/dexter-cli.zip' file

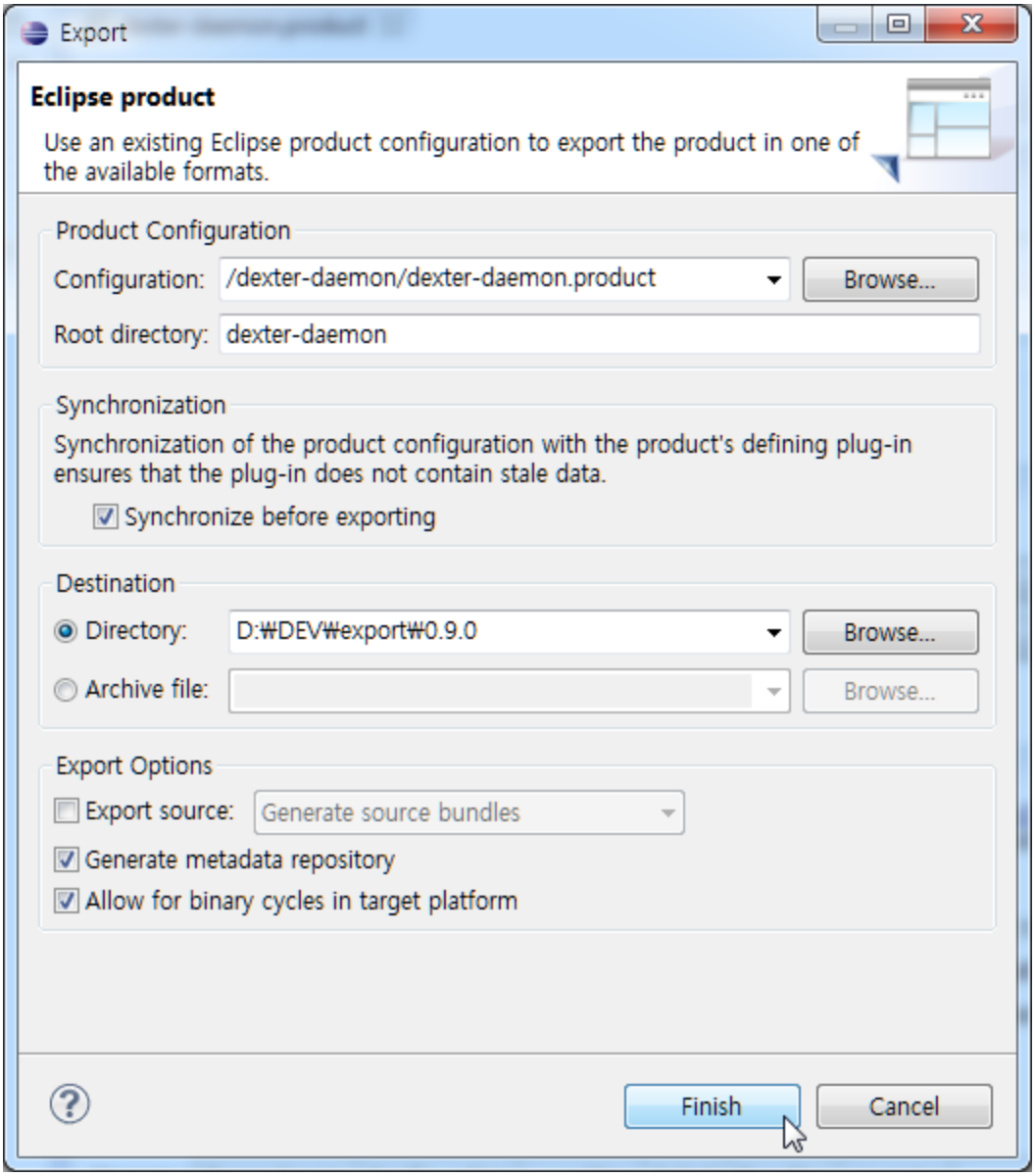


4. Build Dexter Daemon for Source Insight

- open 'dexter-daemon' project, then open 'dexter-daemon.product' file

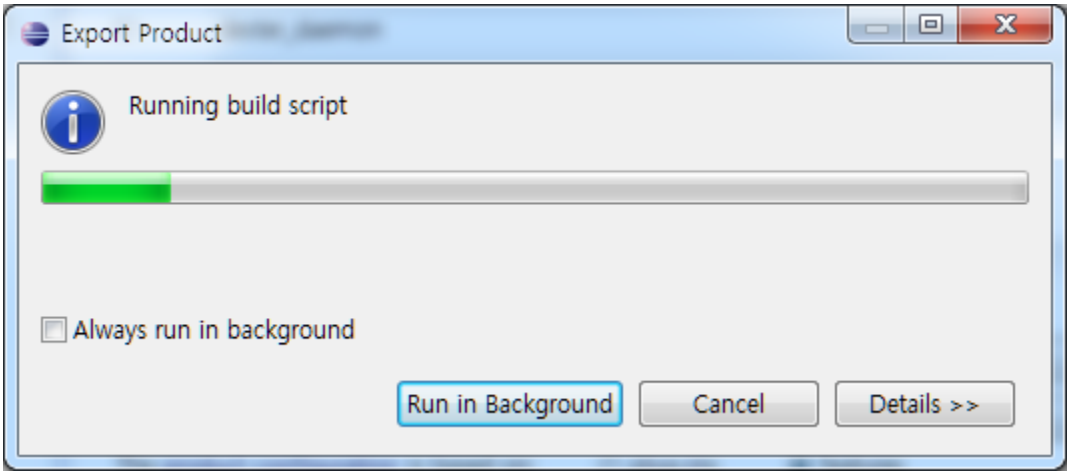


- then click "Eclipse Product export wizard" link on the Exporting tab
- fill the form

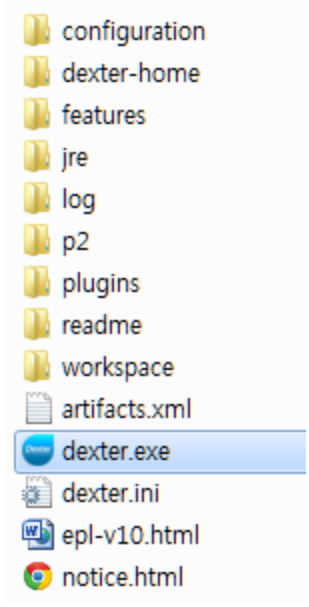


- Root directory : dexter-daemon (* it can be folder name)
- Directory : export folder (*in my case, D:/DEV/export/0.9.0)

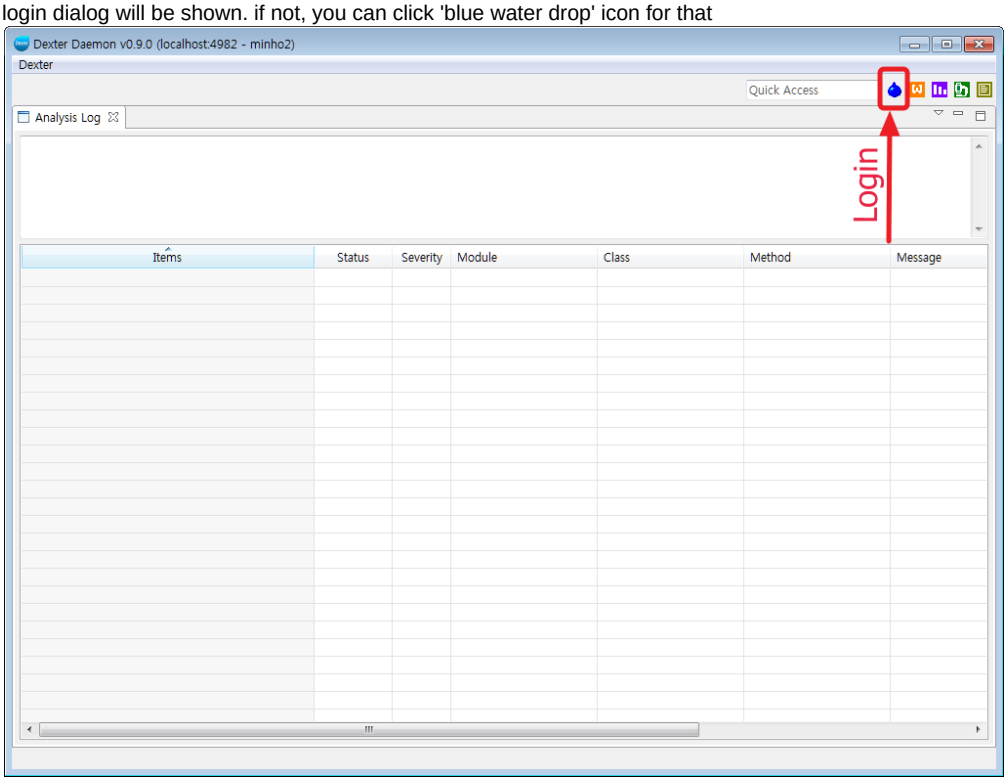
- then click 'Finish' button



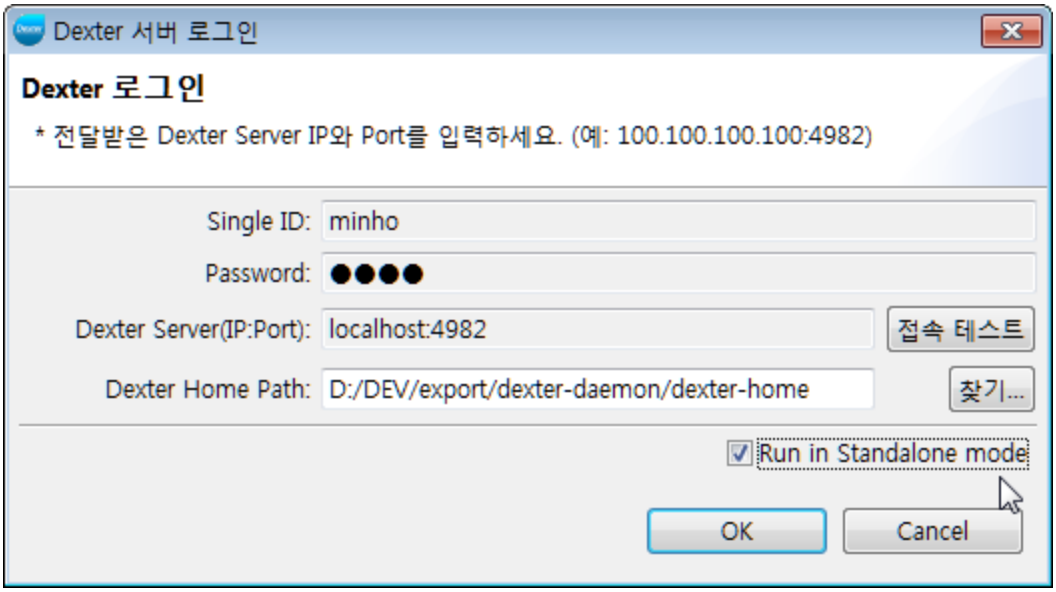
- you can run 'dexter.exe' file the export folder. (* in my case, C:/DEV/export/0.9.0/dexter-daemon)



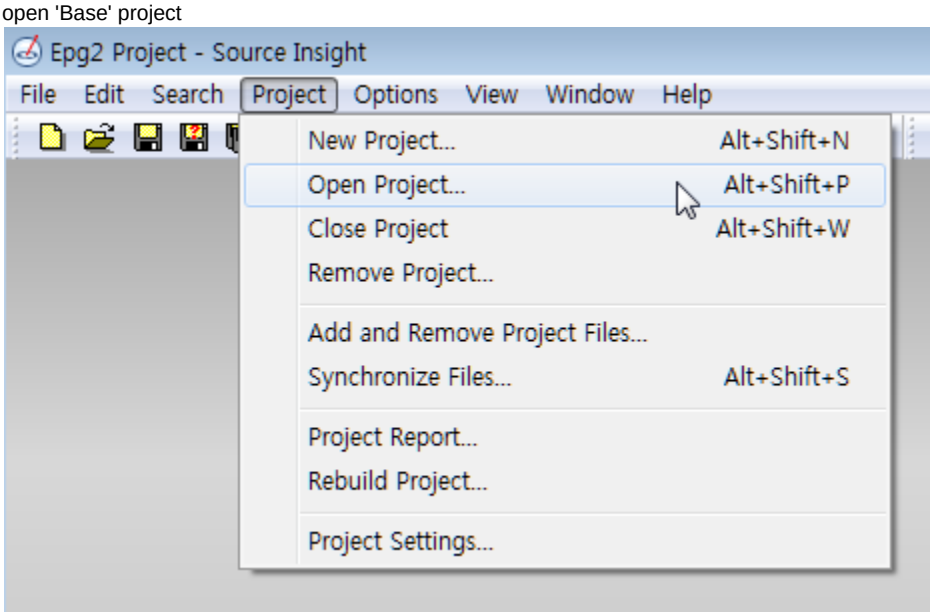
- login dialog will be shown. if not, you can click 'blue water drop' icon for that

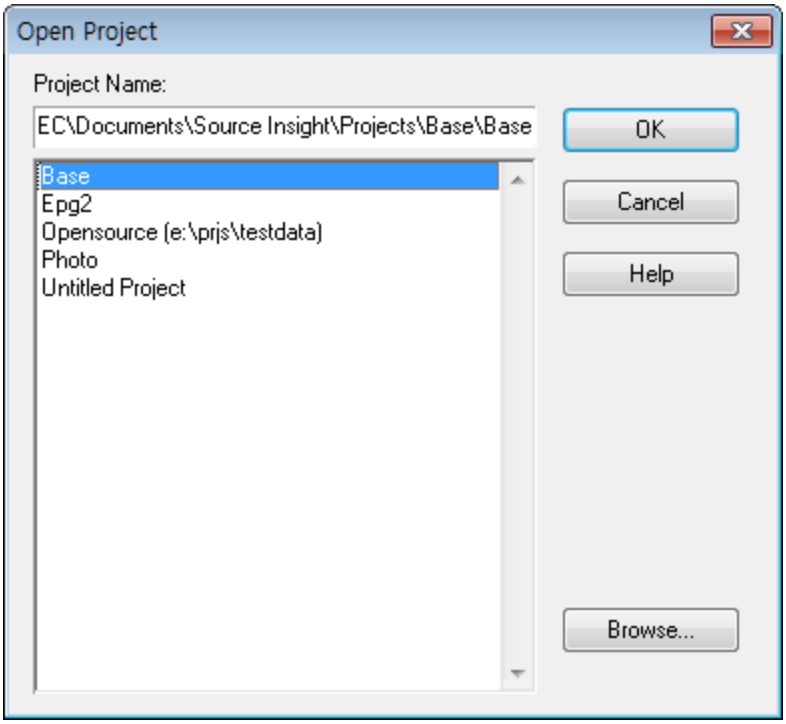


- if you don't have Dexter Server yet, click 'Run in Standalong mode' checkbox

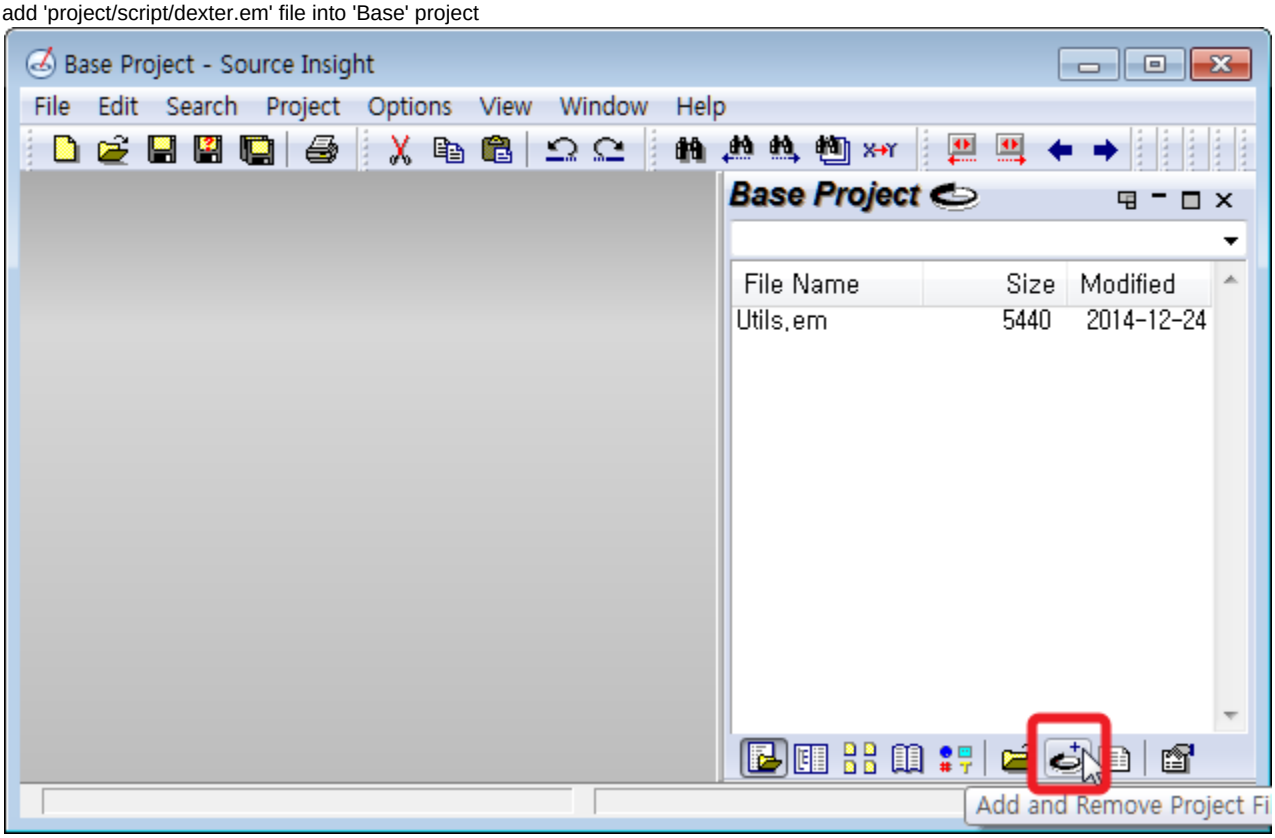


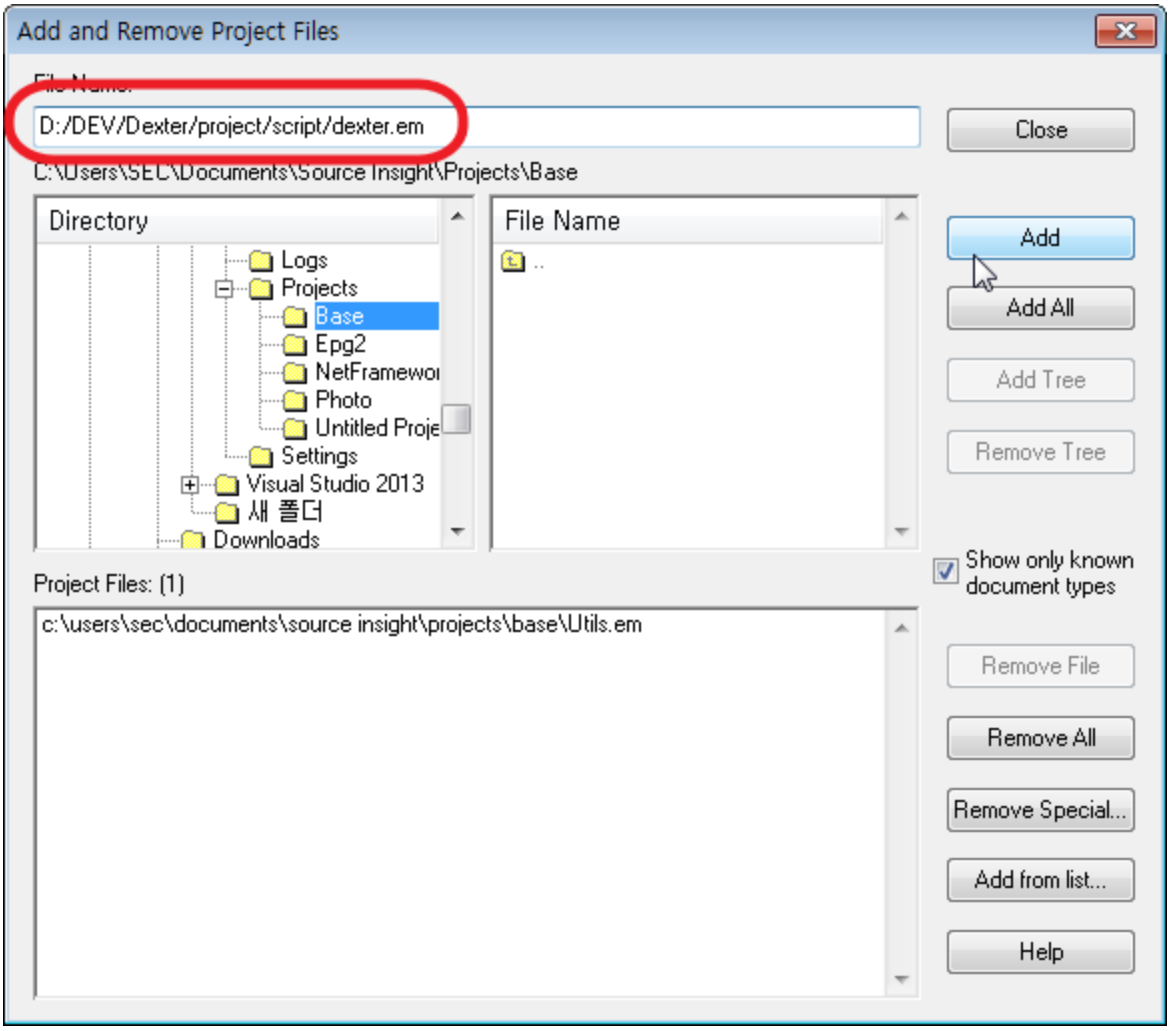
- run Source Insight
- open 'Base' project





- add 'project/script/dexter.em' file into 'Base' project

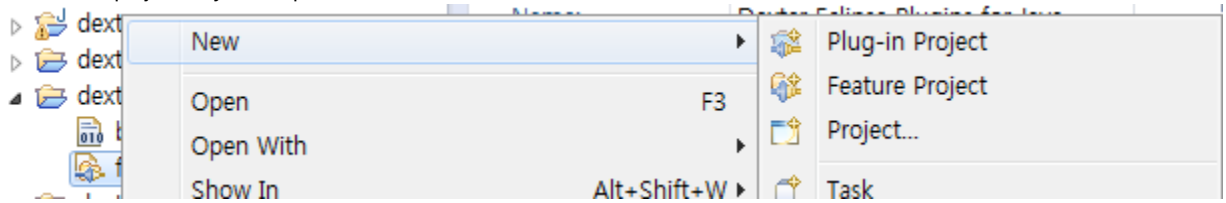


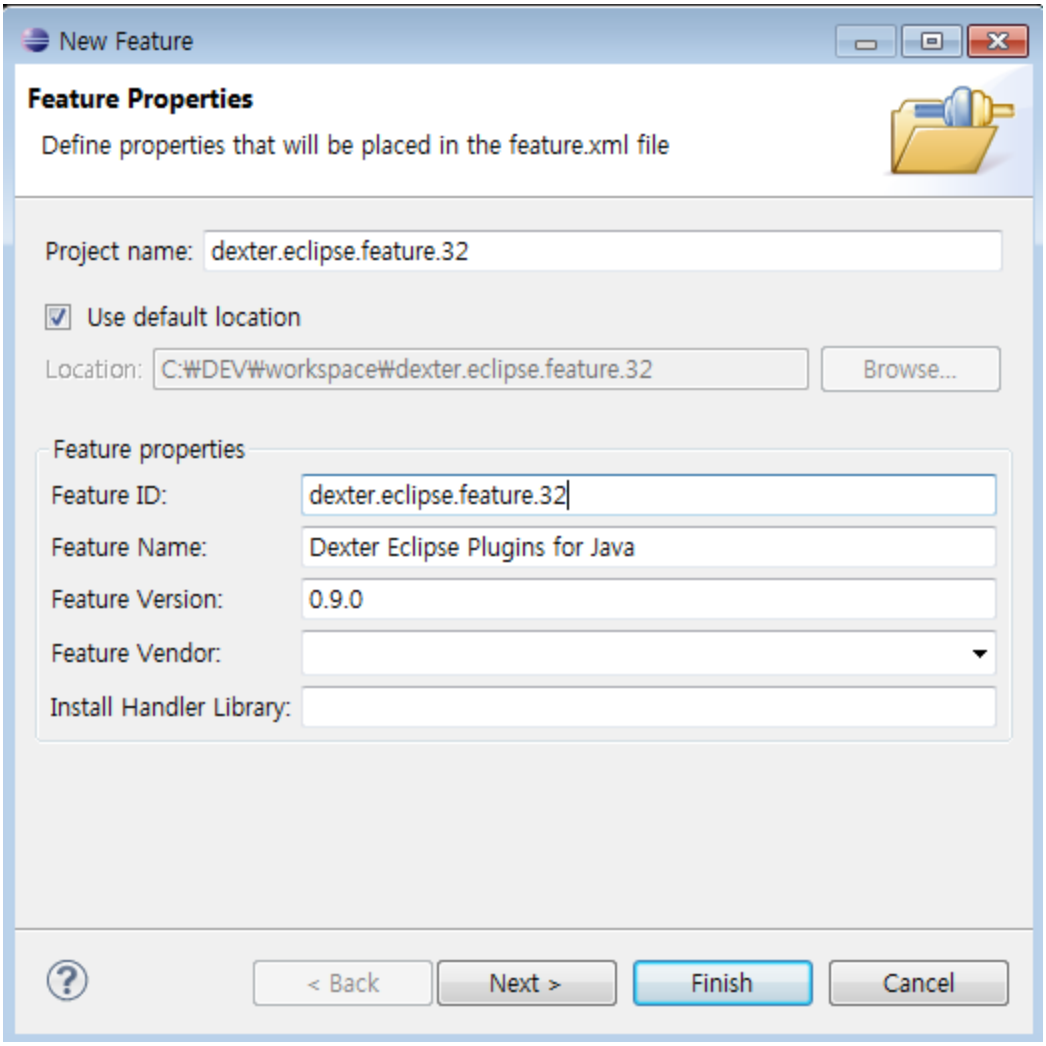


- now, reopen your project that you are working on
- after editing and saving a source file and if there is defects, you can see the error mark.

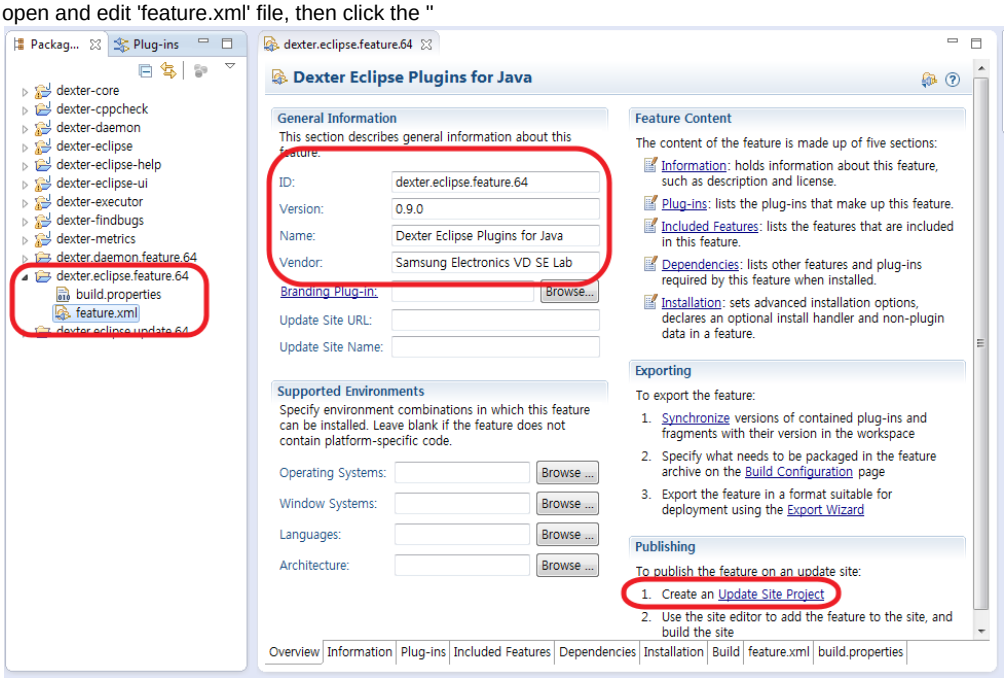
5. Build Dexter Eclipse Plug-ins

- create feature project on your eclipse

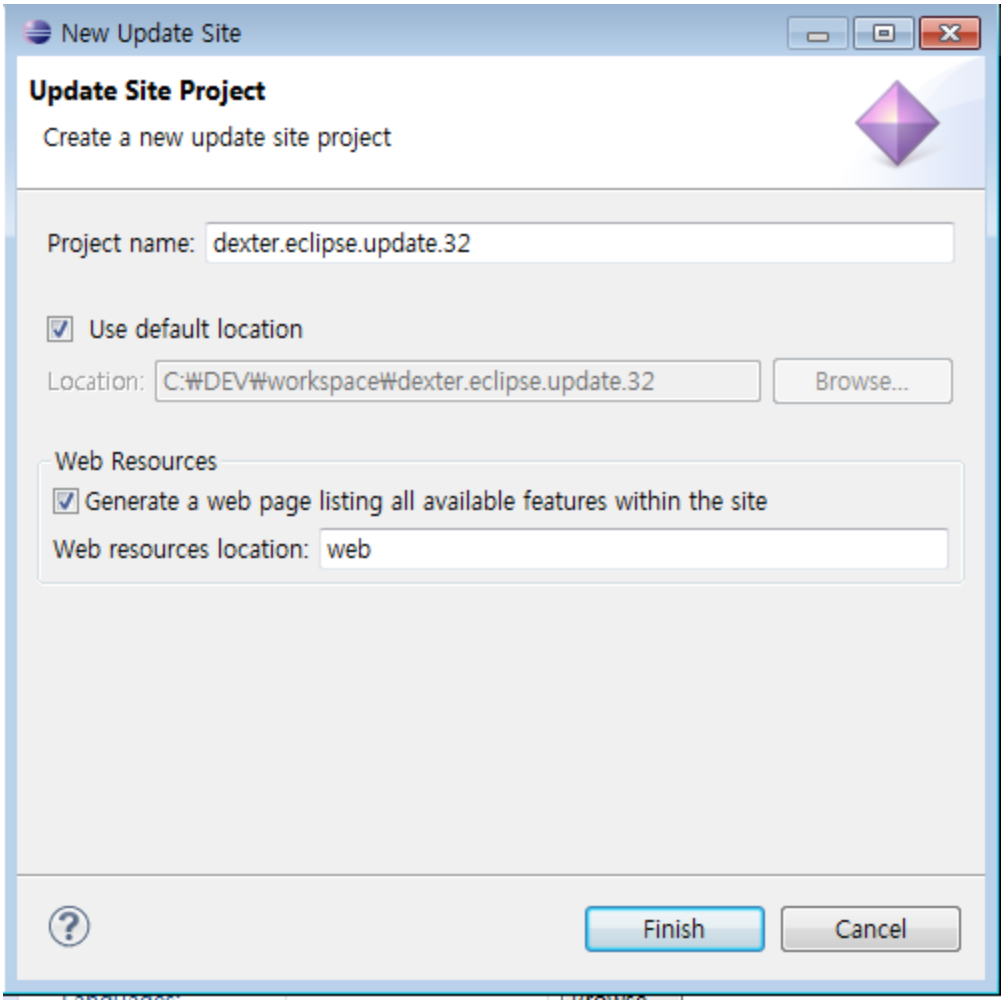




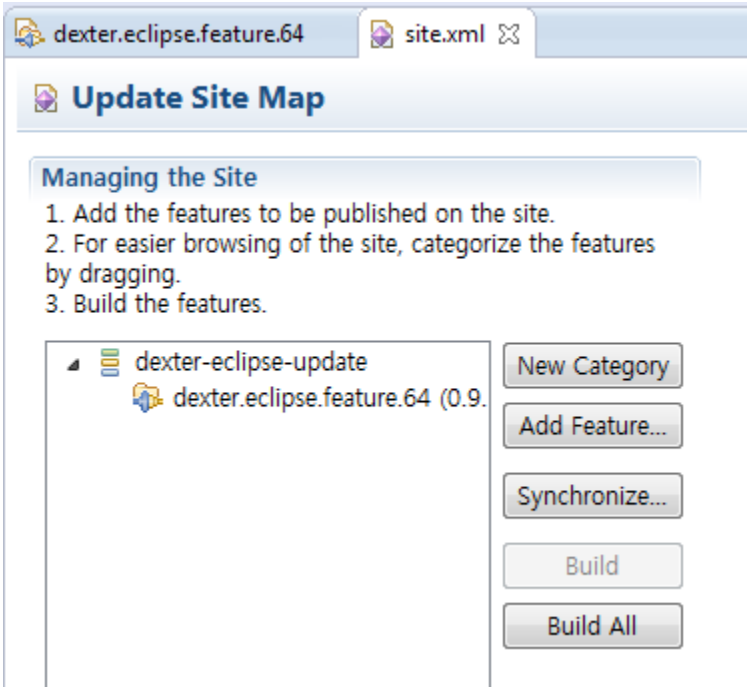
- open and edit 'feature.xml' file, then click the ''



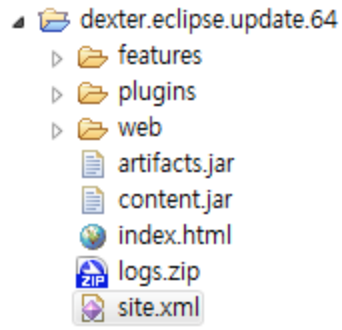
- click 'Update Site Project' on the "Publishing' tab
- then check 'Generate a web page listing all available features within the site'



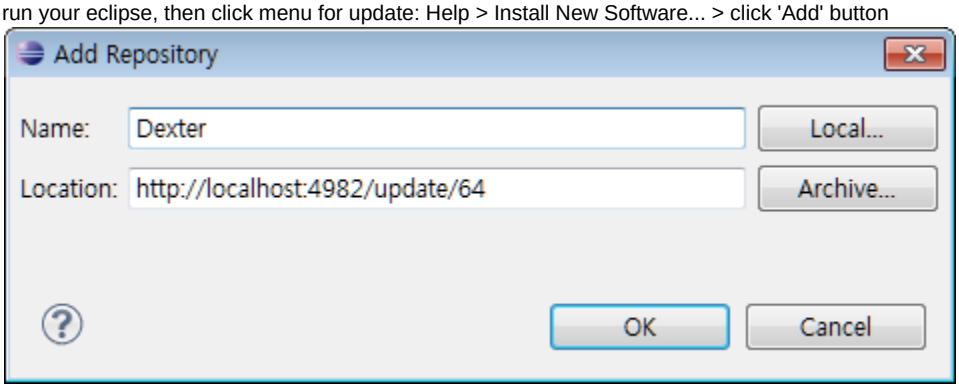
- open 'dexter.eclipse.update.64' or 32 project
- open 'site.xml' file
- add "new category' and 'feature' that you already created



- then, click 'Build All' button
- now you have folders and files for eclipse update site

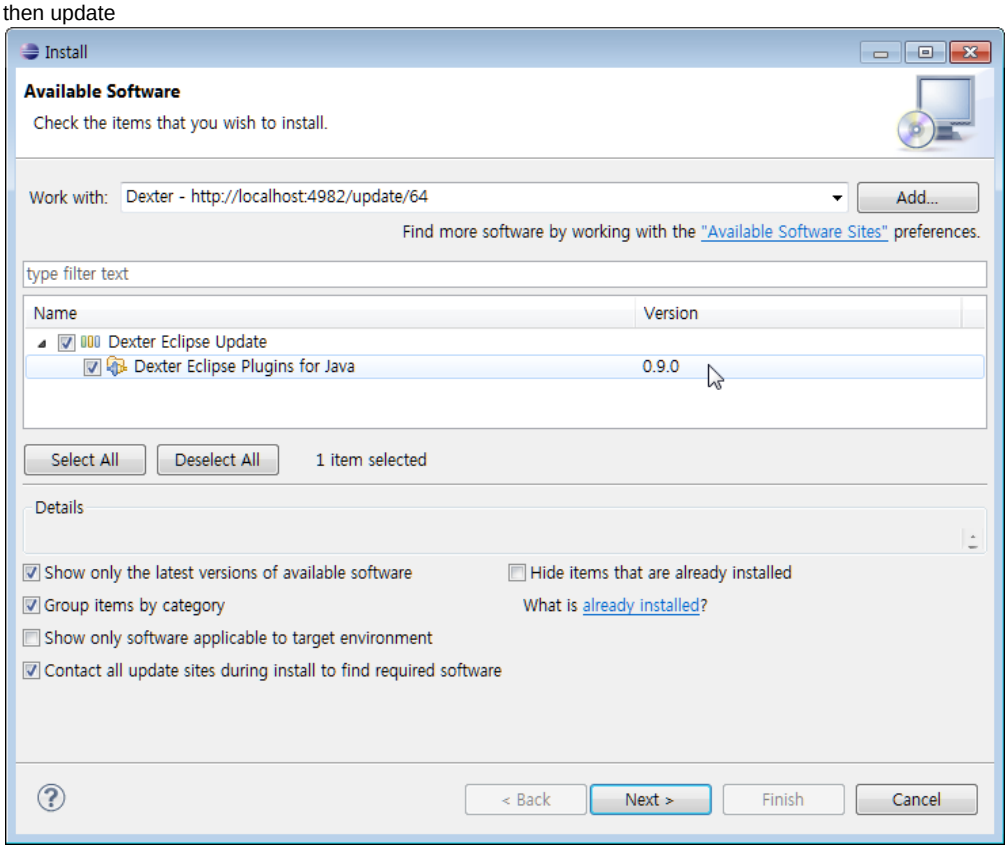


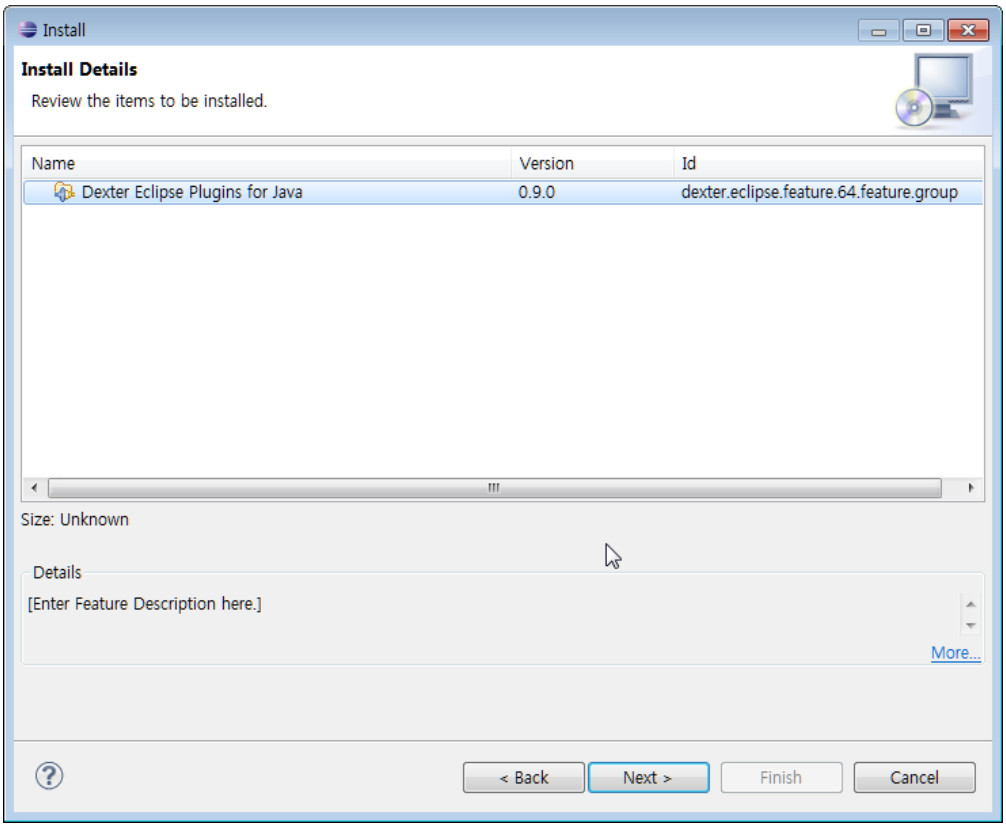
- you can make your own eclipse update site or just copy plugins folder to your eclipse
  - copy all folders and files into your web server, if you have
- run your eclipse, then click menu for update: Help > Install New Software... > click 'Add' button

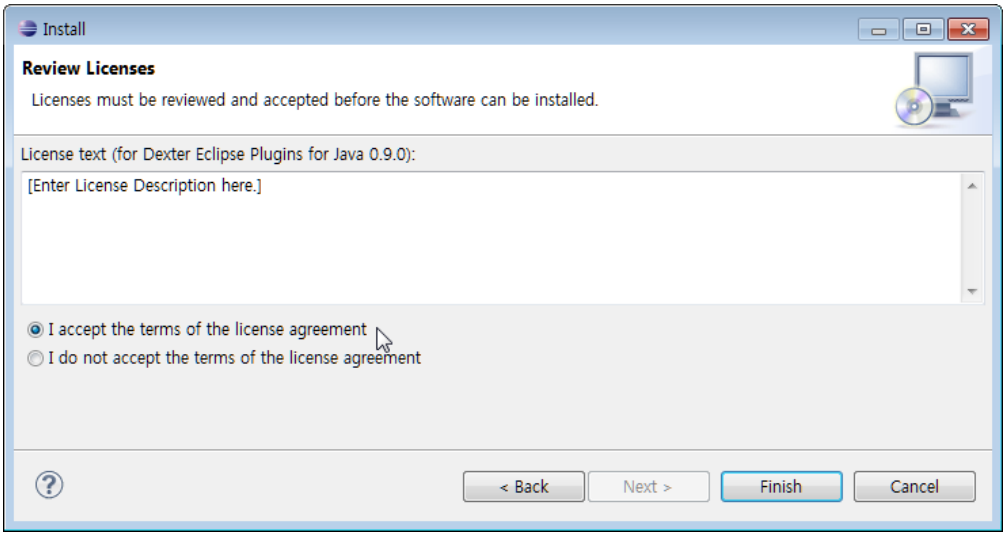


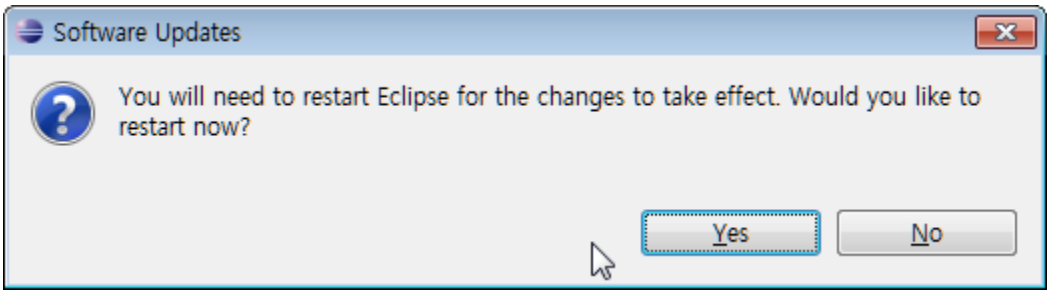
(* I made my own update site)

- then update









- now login like Dexter Daemon version
- enjoy it ~