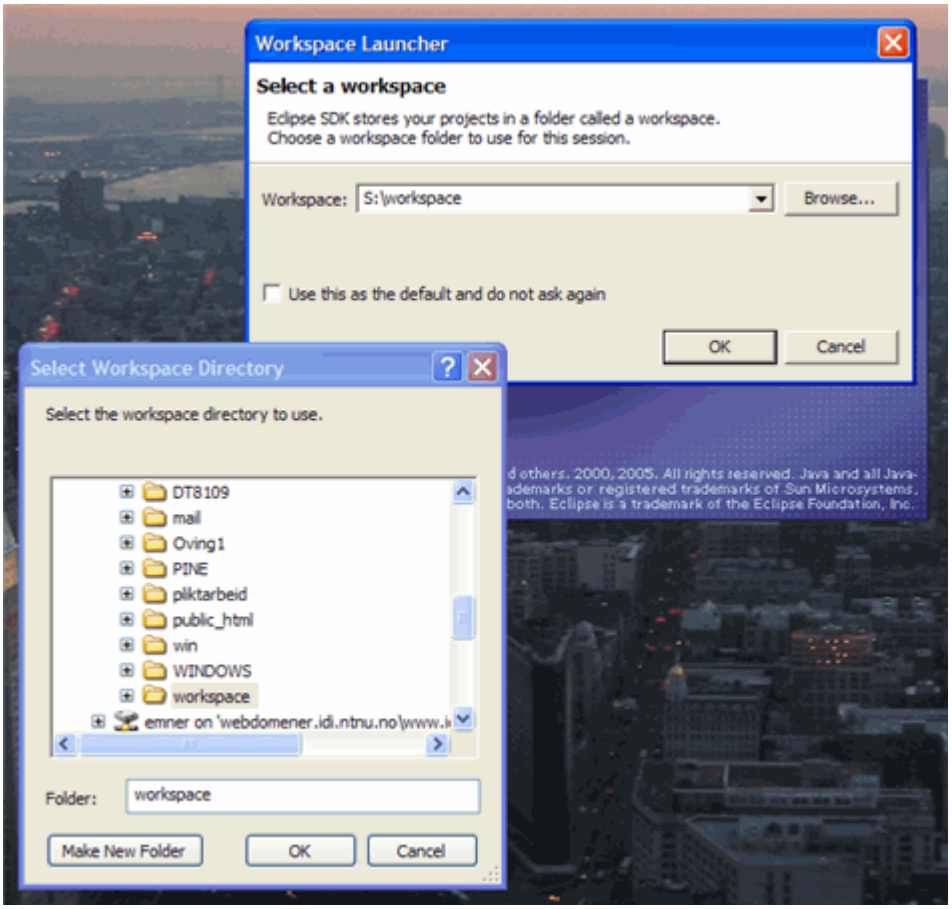
Installation and use of the jfcUnit Eclipse Plugin for TDT4180 MMI

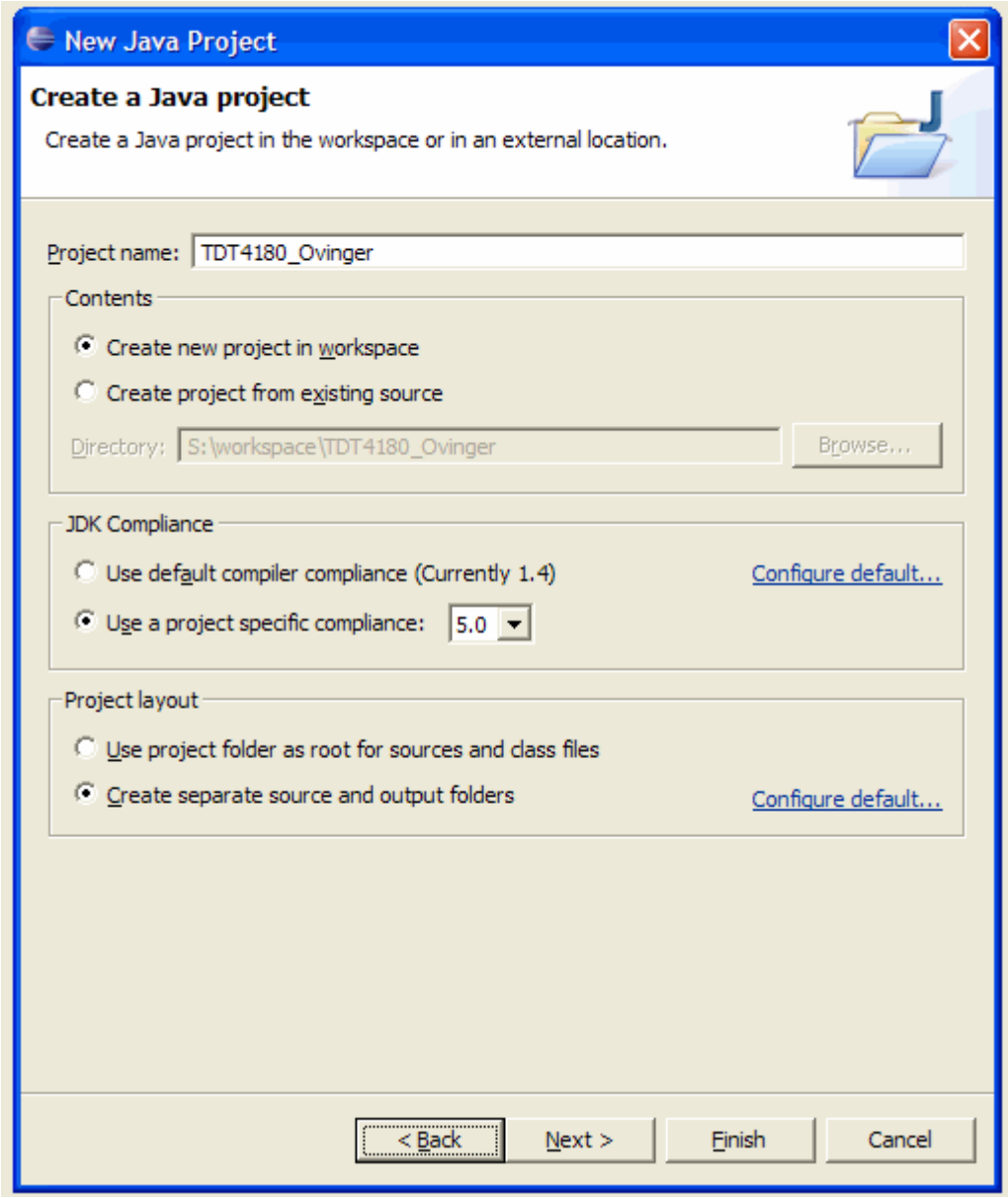
This installation guide describes how you install and configure the jfcUnit Eclipse Plugin both on your terminal server accounts and on your private computers.

Installation on your own computer

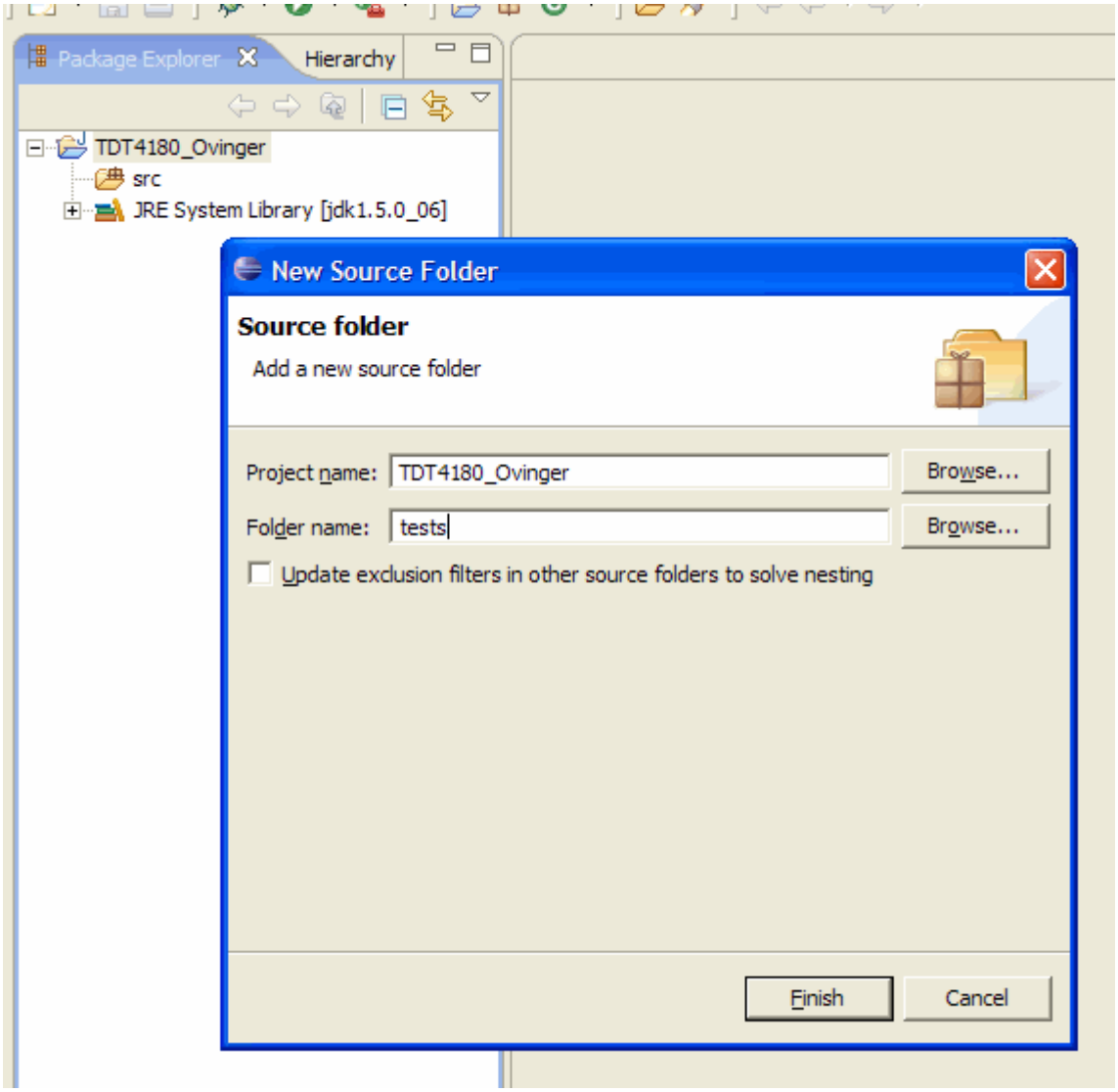
1. Install the Eclipse IDE by downloading it from the Eclipse downloads home (http://www.eclipse.org/downloads/) (make sure you have installed the J2SE Development Kit 5.0 from Sun).
2. Unzip the downloaded Eclipse ZIP file to a desired location on your personal computer, e.g. `c:\` and Eclipse can be found in the path `c:\eclipse`, from now on refered to as `ECLIPSE_HOME`.
3. Download the jfcUnit Eclipse Plugin (http://sourceforge.net/project/showfiles.php?group_id=28662) (`jfcunit_Eclipse_plugin_2.08.zip`) from the jfcUnit web page and extract it to the `ECLIPSE_HOME\plugins` directory.
4. Copy the `jfcunit.jar` and the `jakarta-regexp-1.2.jar` located in the `ECLIPSE_HOME\plugins\junit.extensions.jfcunit` folder to the `ECLIPSE_HOME\plugins\org.junit_3.8.1` folder.
5. Start Eclipse by running the `ECLIPSE_HOME\eclipse.exe` file.
6. Declare a location were you want your Eclipse projects stored, e.g. at your home directory at the student server by creating a new directory called *workspace*. Check the "Use this as the default and do not ask again" if you do want to be asked about this again.



7. Select *"File -> New -> Project -> Java Project"* and click *"Next"*. Declare a project name, e.g. *"TDT4180_Ovinger"*. Make sure the JDK Compliance is set to "*5.0"* and select the *"Create separate source and output folders"* option in the *"Project layout"* pane. Click the "Finish" button.

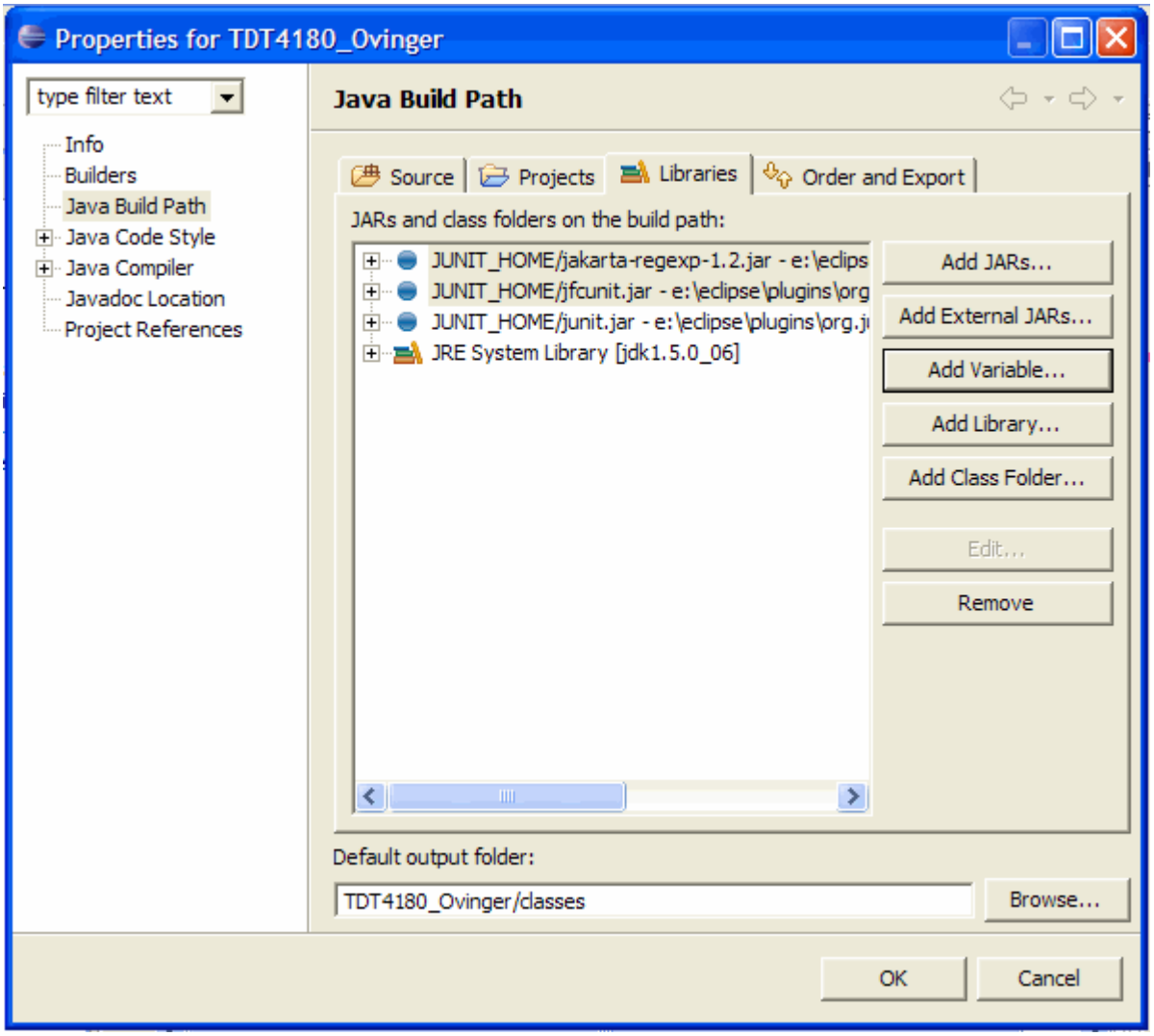


8. Right-click on your project (e.g. *"TDT4180_Ovinger"*) in the "Package Explorer" area and select "New -> Source Folder". Name the new folder *"tests"* and click *"Finish"*. This folder is were you should put the jfcUnit tests attached to the exercises.

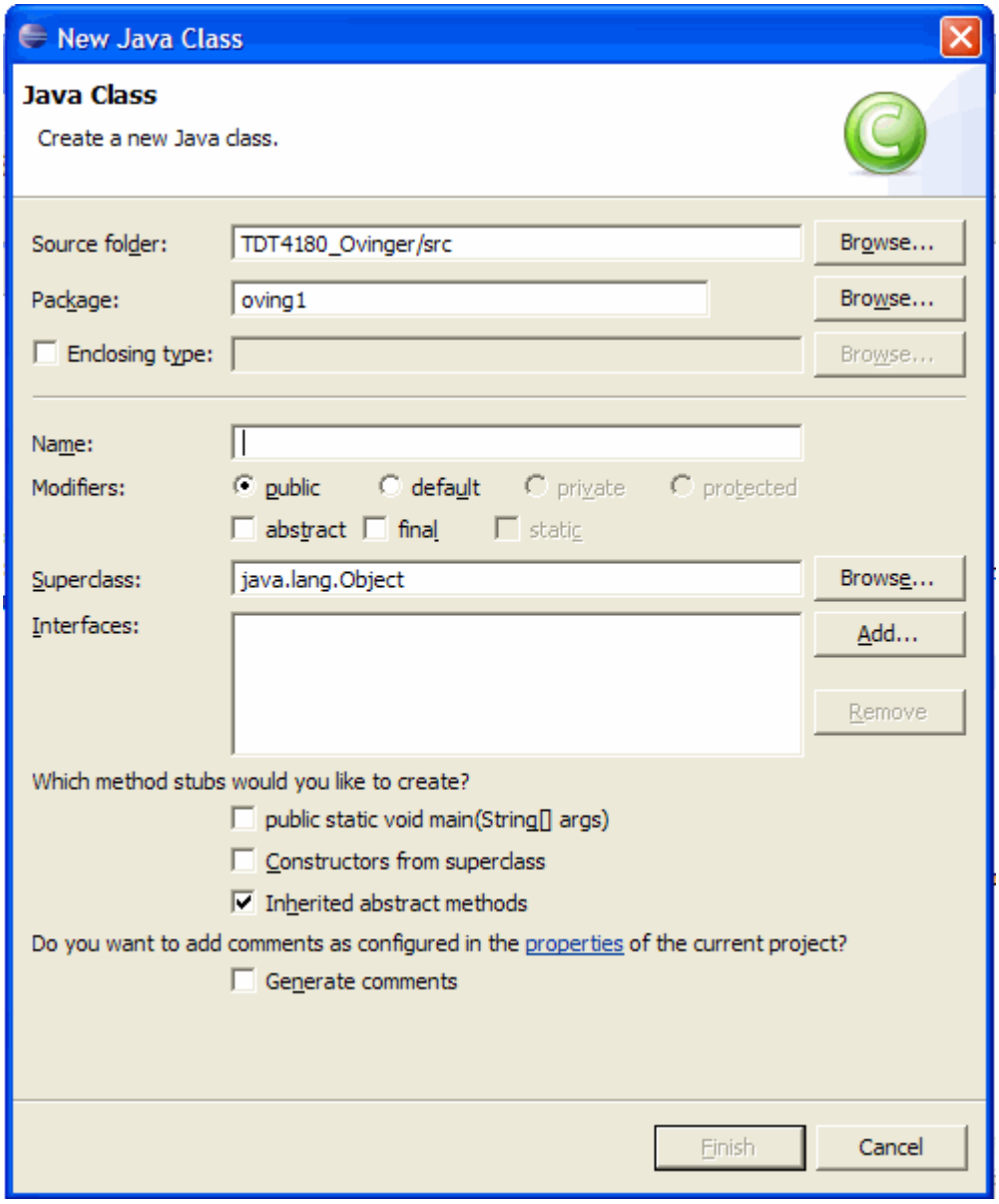


9. Create sub-folders/packages of your *src* and *tests* folders in order to separate the different exercises. This is done by right-clicking the *src* folder and select *"New -> Folder"* and name it e.g. *oving1*. Repeat this for the *tests* folder. For the exercises T2, T3 and T4 you repeat this part and name the sub-folders/packages *oving2*, *oving3* and *oving4* respectively.
10. Download the test attached to exercise 1 to your Desktop (copy the name of the file, right click the link, select *Save Link As...* and declare the name of the test (for the first exercise the test is named `ButtonsNTextTest.java`))and drag it into the *tests/oving1* folder. This operation can be repeated for future exercises as well to corresponding folders.

11. In order to make your Eclipse environment work , you have to add the *jUnit* and *jfcUnit* libraries to your project. This can be done in the following way:
    a. Open the test by double-clicking it. The test appears with a red square with a white X depicting that there are errors. Press *"Ctrl + ."* (the Ctrl-key and the period-key) to navigate to the first error and press "Ctrl + 1" for Quick Fix options. Select the option "Add JUnit libraries"
    b. The Quick Fix feature would not help us in order to add the jfcUnit libraries. This has to be done in a different way. Right-click the project (e.g. TDT4180_Ovinger in the Package Explorer area) and select Properties. Select the Libraries tab. Click the button "Add Variable..." and select JUNIT_HOME and click *"Extend..."*. Select the `jakarta-regexp-1.2.jar` and the `jfcunit.jar` files and click *"OK"*. Finally, click *"Apply"* and you are done.



12. You should now be ready to start implementing your class(es) according to the specifications stated in the exercise text. Create a new class in *src/oving1* folder which name is according to the requirements in the exercise text. Do this by right-clicking the *src/oving1* folder and select *"New -> Class"*, declare the correct class name, superclasses and interfaces and start implementing.



13. To run the test cases, simply right-click the test class in the Package Explorer area and select *"Run As -> JUnit Test"*

Installation on the student terminal server

Do the action points 5-12 described above.