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Part 9: Creating a Test Project in TestLink

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Creating a Test Project

The first time you log in in TestLink after the installation it will open a window to create the first Test Project. Enter the information below and do not forget to check all enhanced features. When you are done just hit Create button.

The screen below is shown after the test project creation.

Click on the "Project" link in the toolbar to get back to main screen.
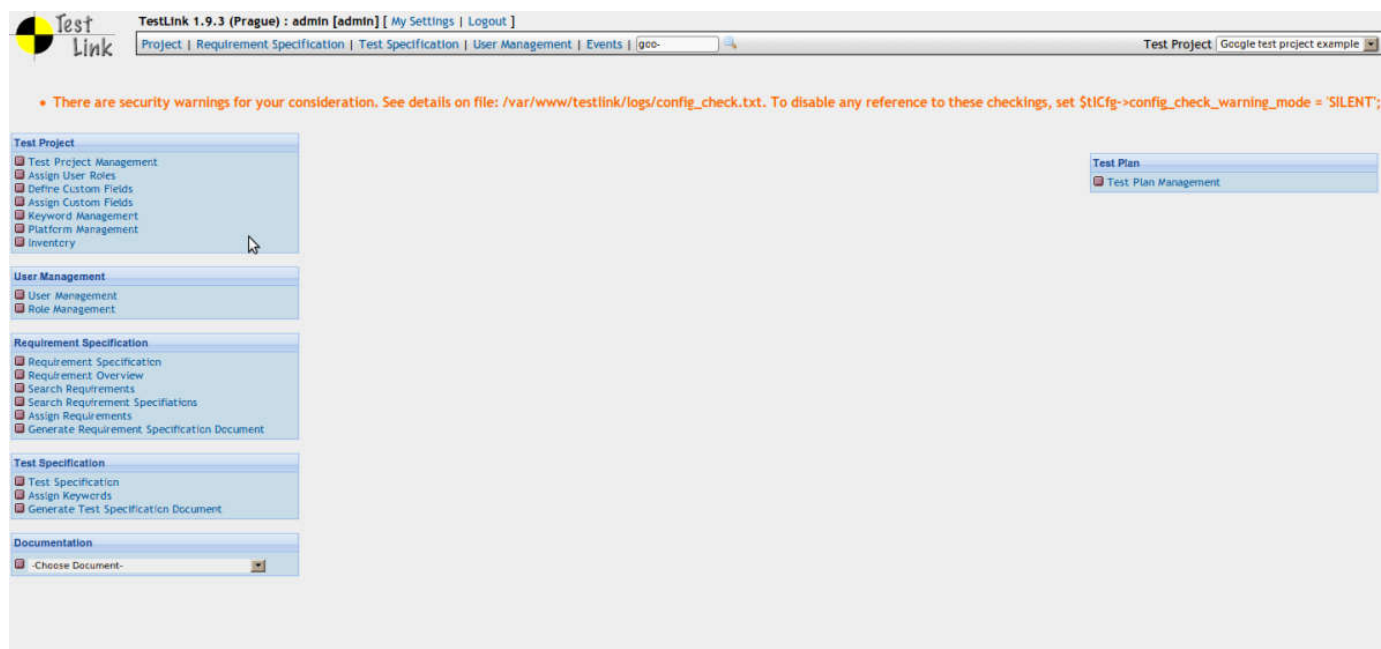
Creating custom field

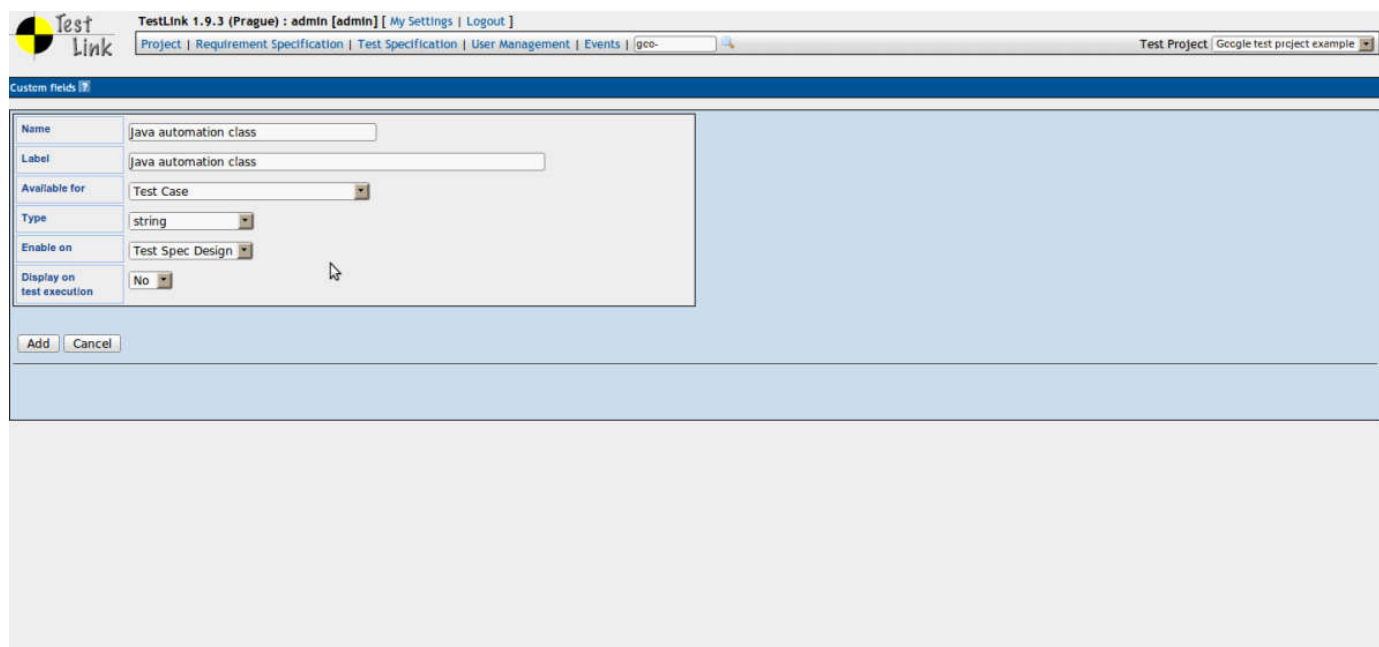We need to define a custom field. This field will be used in the future with the TestLink plugin for Jenkins. When creating a test case we need to define the java class responsible for automating it. So click on "Define custom field" in the "Test Project" box.
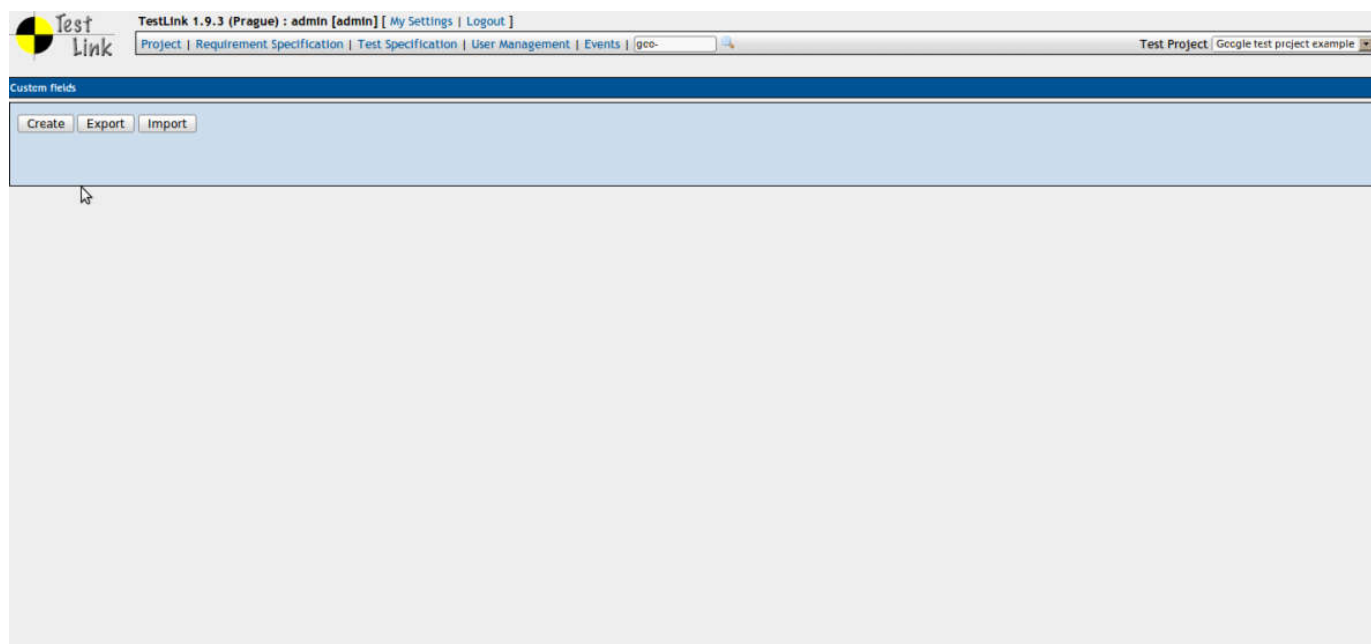
Just hit "Create" button in order to create a new custom field. Fill in with the values as the screen shot below and hit "Add" button.

The screen below is displayed after a new custom field is created.

Now go back to TestLink main screen by clicking again in "Project" link located in the link bar. Now we need to assign the custom field just created to the project. Choose "Assign custom field" link to perform this action. The screen below is displayed. Check the field just created and hit "Assign" button.
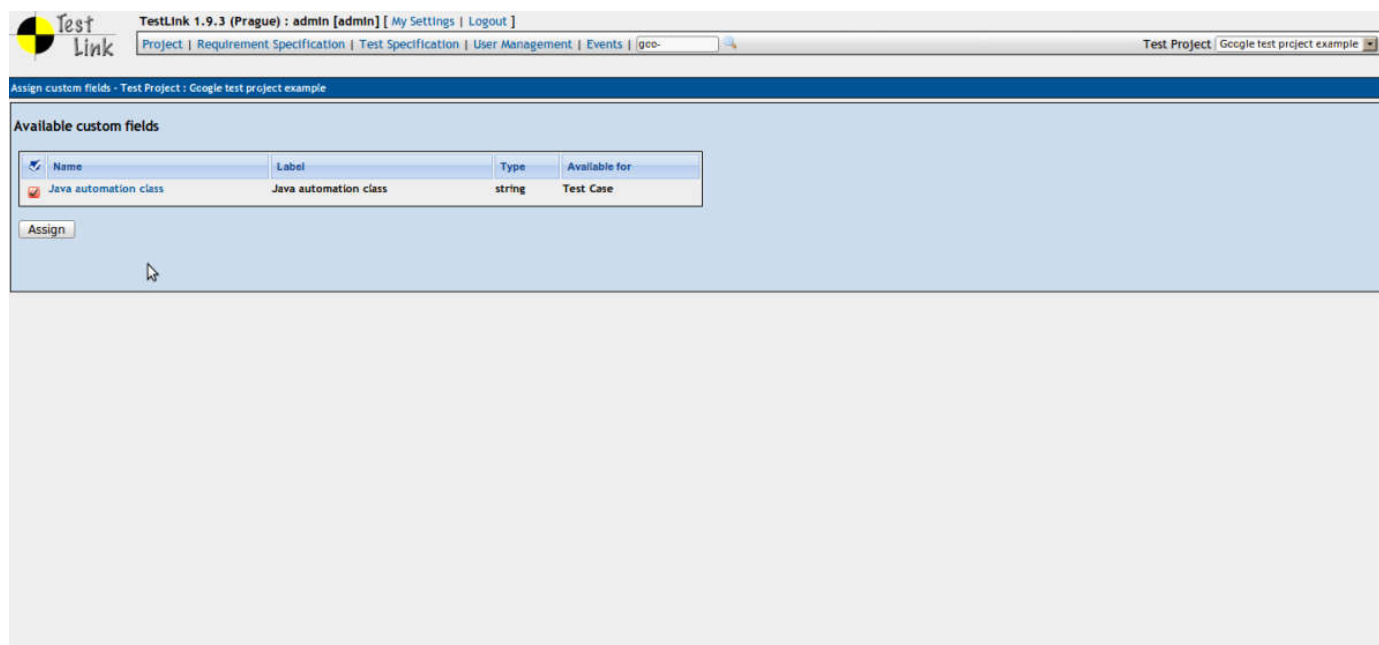
The screen below is displayed after clicking on "Assign" button:
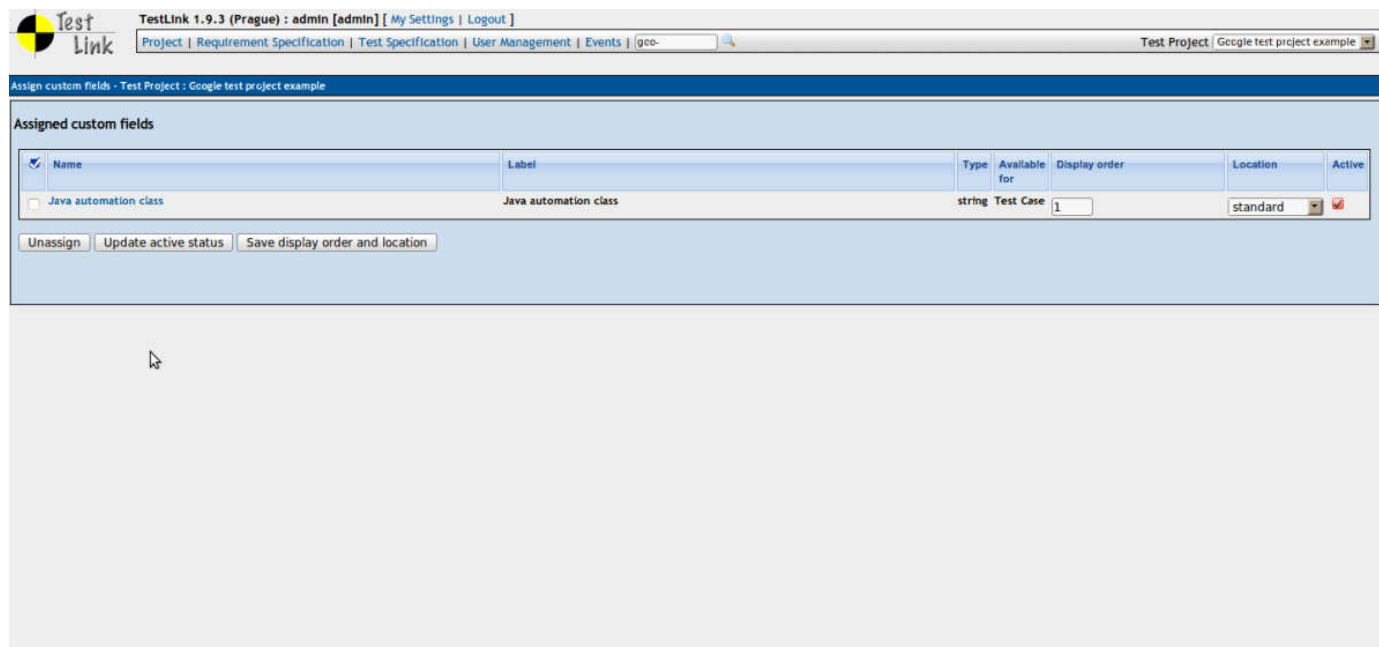
Creating Test Cases

OK, now we need to create our test cases for our requirements. To do that click on "Test Specification" link in the link bar. The screen below will be displayed. Note that in the left side we have a tree-like structure. All suites and test cases will be accessible from this tree. The root of the tree is already created by TestLink and it is automatically named with the same name of the Test Project and you are not allowed to change it. To create a test suite select the tree root "Google test project example". In the right panel a new frame is displayed. Now hit "Create" under Test Suite Operations.
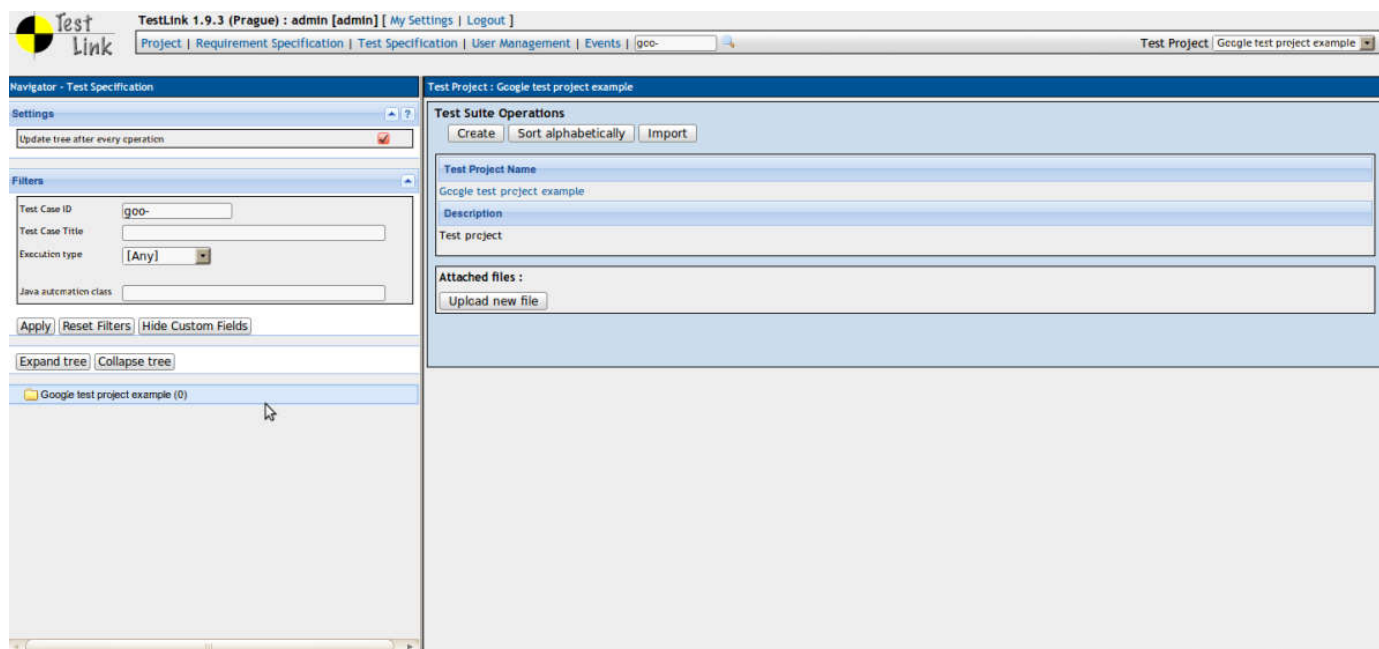
The screen below is displayed to create a test suite. Enter a name for the suite and click on
"Create Test Suite" button.
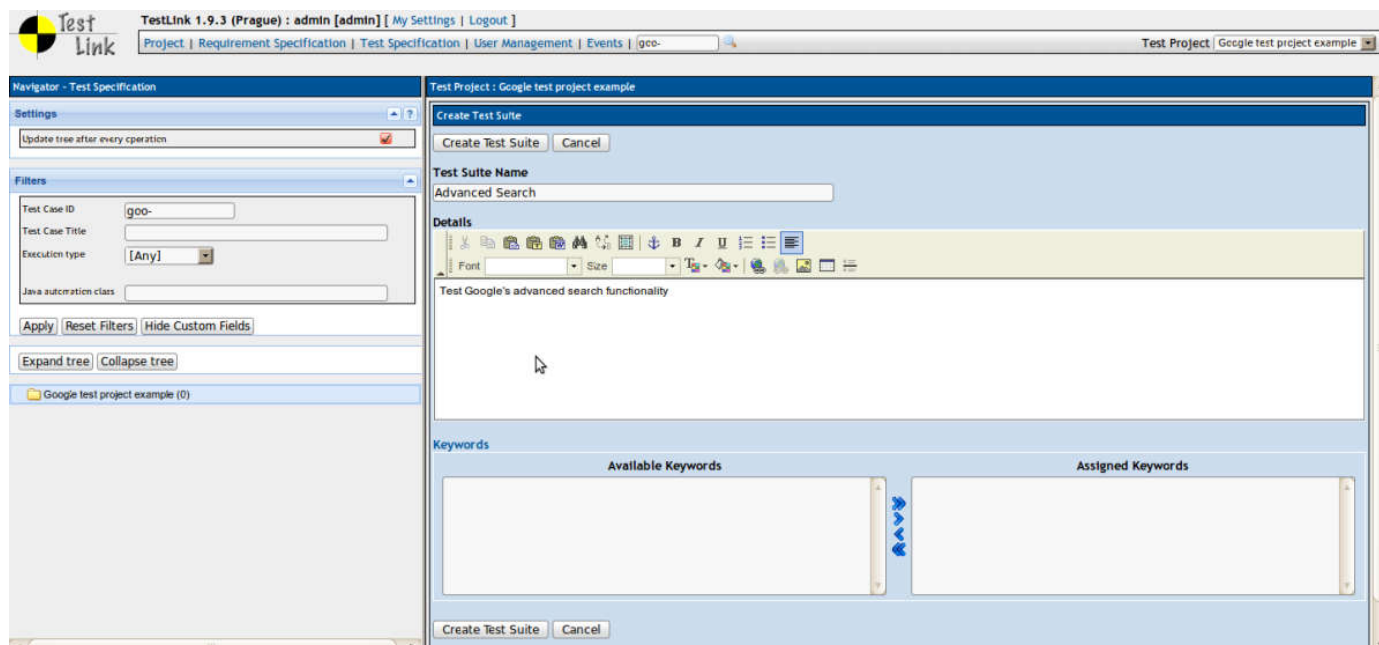
After creating the test suite, the right panel will be automatically refreshed and now the
suite will be displayed in the tree just below the root node. We can now create our test
cases under the suite just created. Select the suite just created. The right panel will be
refreshed and the screen below is displayed. Click on "Create" button under "Test Case
Operations". Please note that I said the Create button for Test Case and not the Create
button for Test Suite.
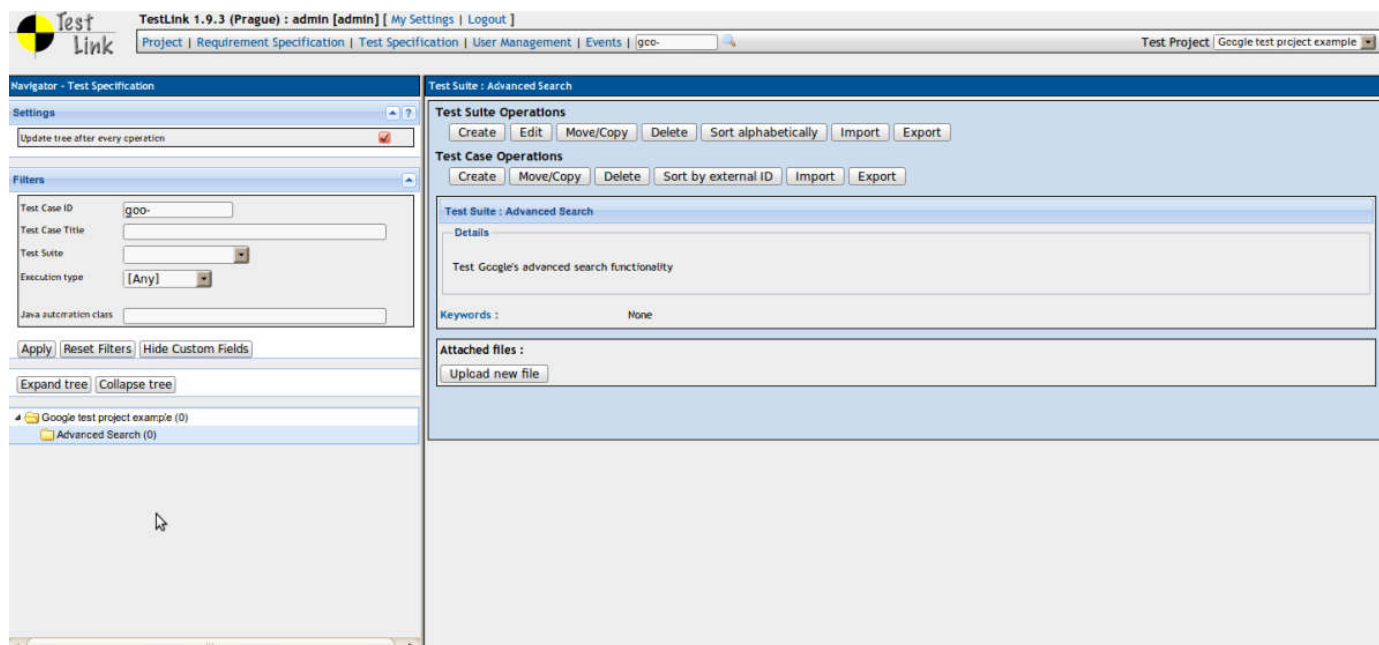
Now enter a name for the test case. I have chosen the same name described in the requirements but you can adopt any other pattern.
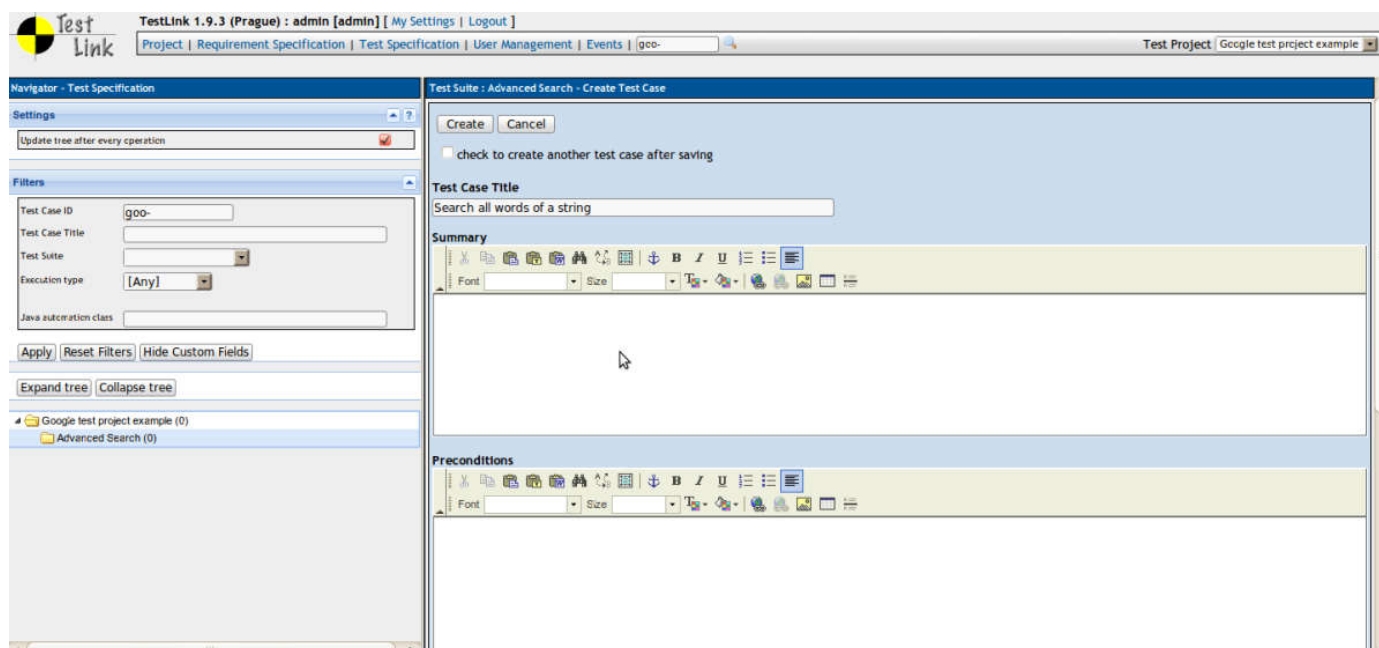
You can fill other fields, but they are all optional and we will not be using the information in this tutorial. So still in the test case creation page, scroll down and new fields are displayed. Note that the custom field we created before is now being shown. Change the execution type to "Automated" and in the "Java automation class" put the full qualified name of the java class responsible for the test execution. Then hit "Create" button.
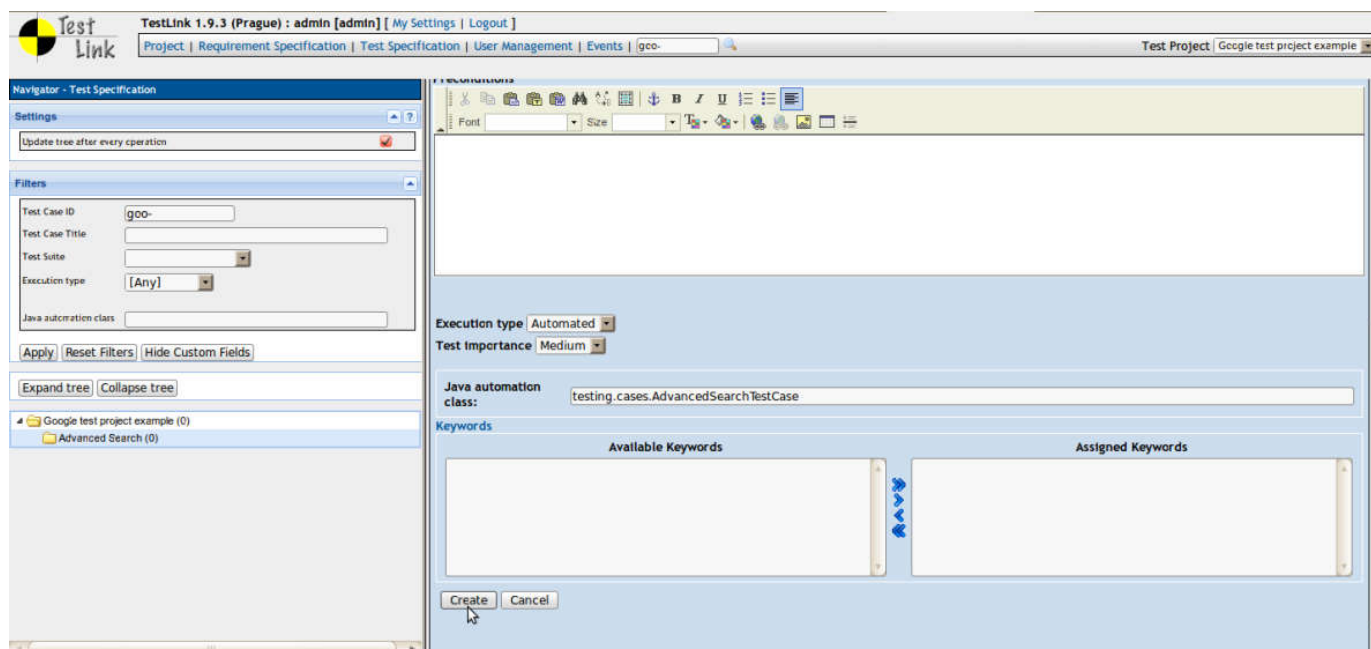
The left panel will refresh again and the test case just created will be listed in the tree. Select it in the tree. The right panel is refreshed and the screen below is displayed. Hit "Create step" button. Note that this step is optional for the automation. If the java code is well documented, there's no need to document the steps in TestLink although it's a good practice.
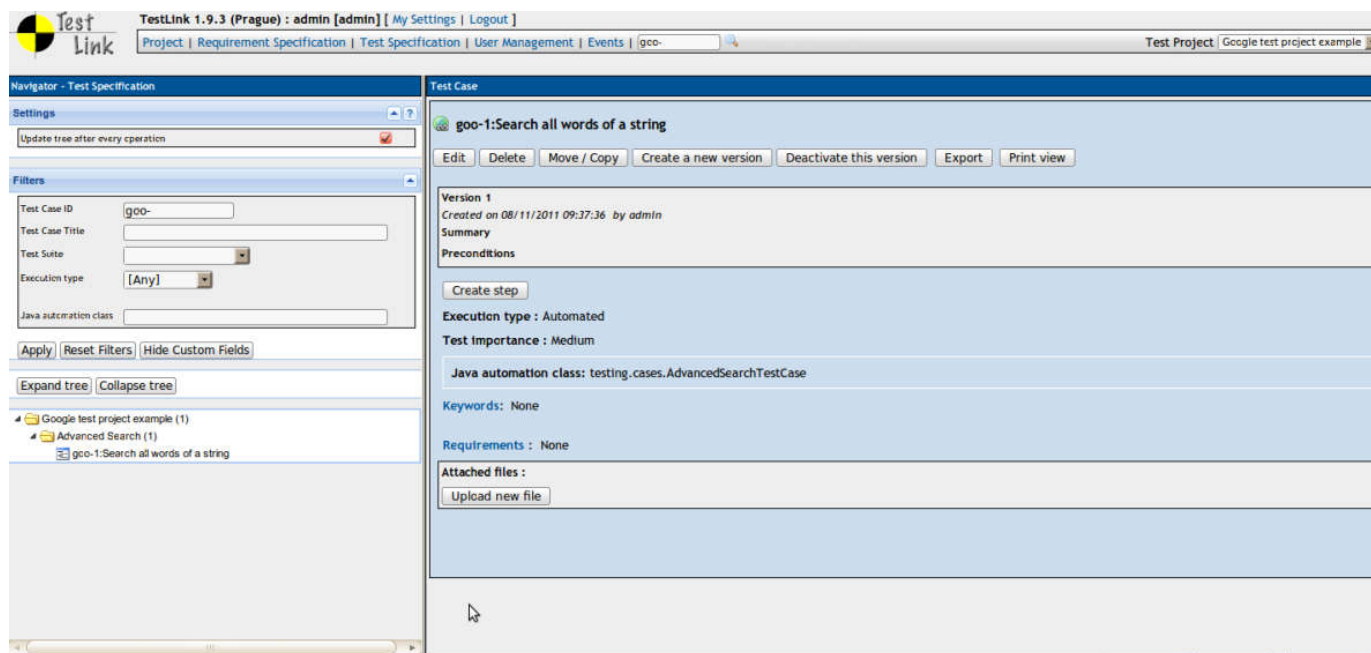
The screen below show the documented steps for the test case.
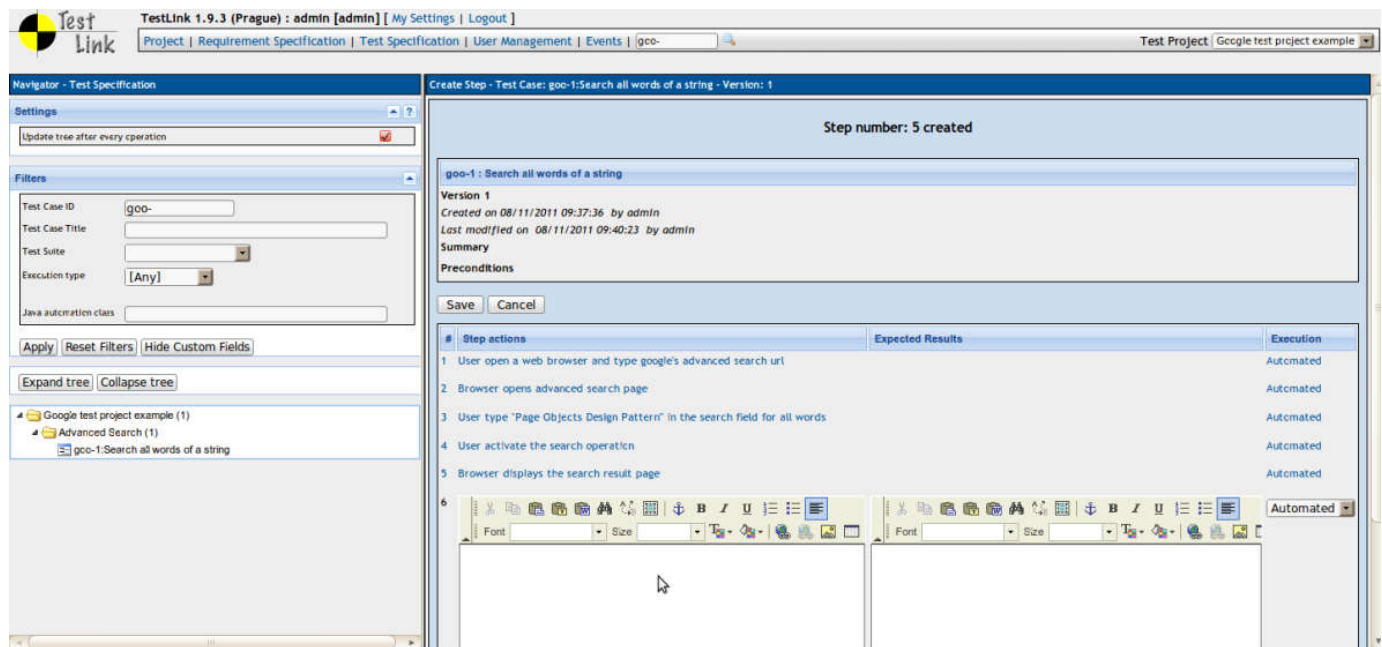
Now create other 2 test cases following the same steps above. Your tree should be like the screen shot below:
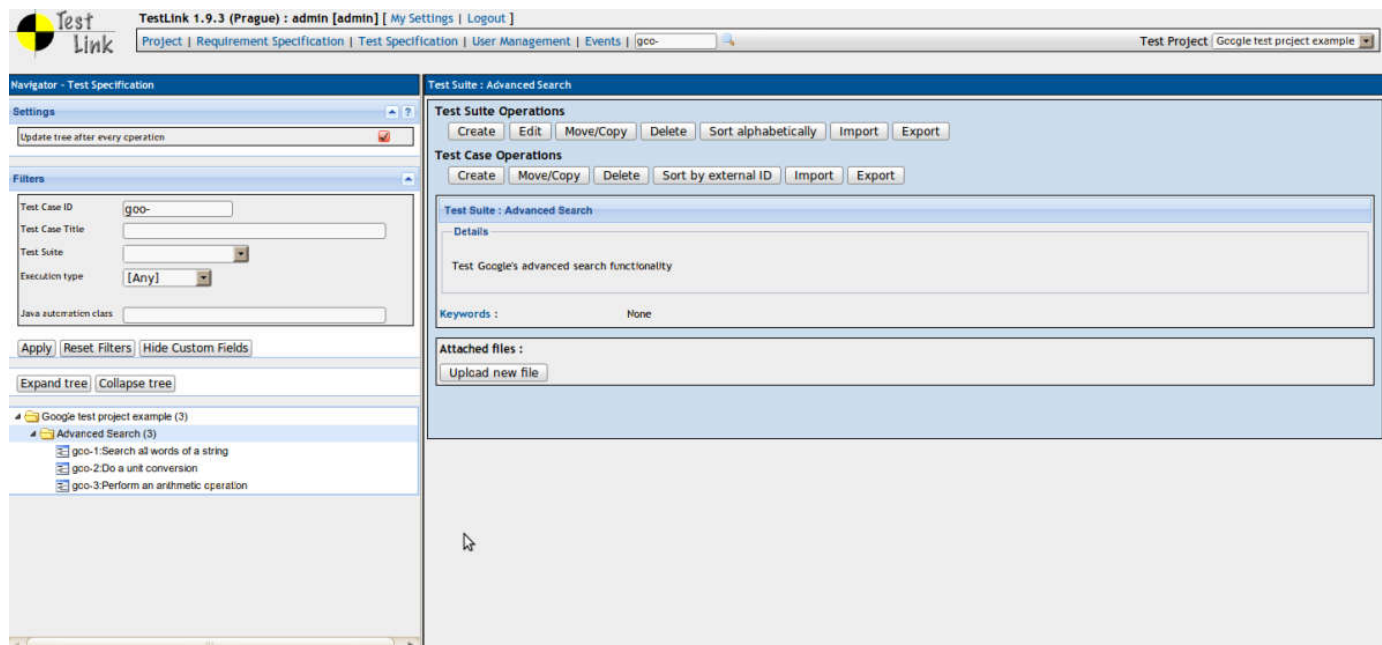
Summary

Just make sure you have your tests created as stated below. Please note that the most important part for us is the java automation class field. All other fields can have different names like the suite or test case. We need to keep exactly the same java class name we created in the previous tutorial.

Test suite: Advanced Search

- **Test case 1**: Search all words of a string
  - **java automation class**:
    testing.cases.AdvancedSearchTestCase#advancedSearchTestCase
- **Test case 2**: Do a unit conversion
  - **java automation class**:
    testing.cases.UnitConversionTestCase#unitConversionTestCase
- **Test case 3**: Perform an arithmetic operation
  - **java automation class**:
    testing.cases.ArithmeticOperationTestCase#arithmeticOperationTestCase
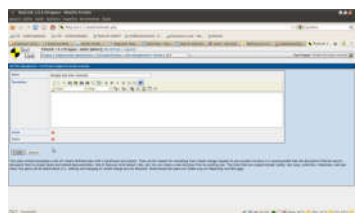
Since we may have multiples tests in the same Java class we need to specify which method we want to run.
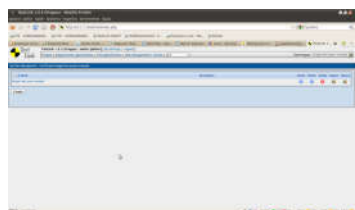
Creating a Test Plan

Next step is to create a test plan for adding the test cases just created. Go back to Testlink's main screen and click on "Test Plan Management" in "Test Plan" box at the left.
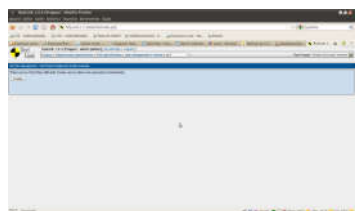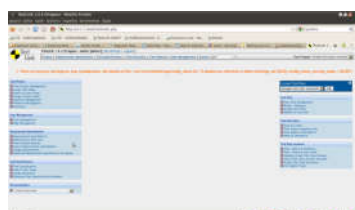
Click on Create button to create a new test plan.



After creating the plan the screen below is shown.

Now click on "Project" link to get back to TestLink main screen. In the main screen click on "Add / Remove Test Cases" under "Test Plan contents" box.

Click on "Advanced Search" test suite in the left. The right panel will refresh and list all 3 test cases we have previously created. Select all of them to add to the test plan and click on "Add selected" button.
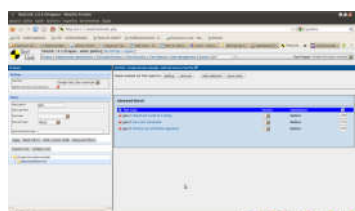
You should see a screen with all test cases marked in yellow.
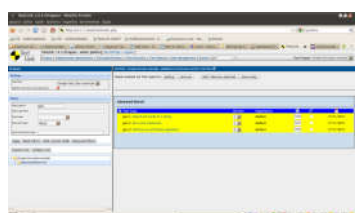
We are done with Testlink for. Go to next part of the tutorial.

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