#### TestExpert v0.1.0 Release Notes

#### **General Remarks**

This is the first release of TestExpert. It is a newly, beta-release of the product.

#### **New Features**

In fact everything is new here. :-)

## Improvements/Enhancements

## **Performance Improvements/Enhancements**

None at this time

## Other Improvements/Enhancements

None at this time

## **Additional Support**

jMockit and EasyMock are now fully supported. See ROADMAP for more in the future support for mocking frameworks.

## **Bug Fixes**

Since the product is not completed yet some bugs may arise. A short bug list which **might appear** when using TestExpert is mentioned below for convenience:

As of 2014, May 23th, there were 5 verified issues that have been resolved:

Sometimes an import of an innerclass contains an invalid \$

A variable which is not in the Fixture file should be treated as a literal and NOT as a variable in the testclass

Although TestExpert supports jMockit some issues may rise

There might be some security issues when a class can not be opened by TestExpert

Array types in the in- and out variable are not fully compliant. You have to change the generated class yourselve, which is trivial (2 seconds)

#### **Known Issues**

TestExpert is not compliant with the Google Web Toolkit (GWT).

Some classes are not automatically imported in the generated unittest classes. Import this classes through Ctrl-O (Eclipse).

Sometimes the type of String and int are confused. This can be fixed be changing the code in the generated test class. It will be fixed in the next release.

Jad should be installed on the developer's pc. Jad is a Java Disassembler which disassemble binairy files to sourcecode. It should be installed on the machine's path to execute correctly.

The jMockit.jar should appear **above** the Junit 4.8.2 jar in the order / export of the jars, especially when

this message occurs when you are running jMockit as your mocking framework:

WARNING: JMockit was initialized on demand, which may cause certain tests to fail;

please check the documentation for better ways to get it initialized.

## **RoadMap**

#### **Near future**

More successcase per method (max. one at this moment)

More unsuccessful cases per method (zero at this moment)

## **Far Future**

Jad should not be a requirement. Will introduce a parser-generator.

## **Installation guide**

See the INSTALL file

Optional: install the content from the demo directory in v	vour Eclipse	environment.
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# **Getting Started Guide**

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After completing the installation guide above TestExpert is ready for y	our first experience.
In a Java class with a method wherefore you would like to create somethod.	ne unittests open the desbetreffende
There a two ways to make a hint for TestExpert to create a unittest:	
1. Use a literal: this is only possible for an int and a String	
2. Use a variable: first create a so called Fixture file / class e.g.	

	you can use the method names as a variable in your class under test So 'simpleDemo()' will be 'simpleDemo' and 'customer' will be 'customer'
After added the @CreateUnittest an your tests:	notations – the heart of TestExpert – it is time for the last step to generate
Create a class which extends from T needed template methods.	TestExpert. Let Eclipse or your favourite IDE implement the stubs for the
Implement the the template methods	s to your situation:
The methods of the overridden class	s contains several overriden methods which are explained below:



String getBinaryFolder(): should return the folder in which the compiled (.class) files exist. This is necessary for inspecting the JVM instructions for generating collaborating methods calls and such stuff.

String getOutputFolder(): the folder in which TestExpert will create the generated Testclasses. You should beforehand create that folder and add that folder to the sourcepath of your Java project.

String getTestsuiteName(): a suiteable name for the class which will also be generated after the creation of all your testclasses. It will contains calls to the by TestExpert generated Testclasses so you don't have to call them all by hand in your Eclipse / IDE environment.

MockFramework getMockFramework(): should return an enum instance from the MockFramework enum. At this moment only EasyMock (thoroughly tested) and jMockit (good tested) are supported.

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And now for the nice part and where TestExpert wins:

Writing unittests is simple for a method which does not use a collaborating class.

When you have to mock a collaborating class the test most of the time gets pretty hairy and you have to investigate more time which is counterproductive to testing and might

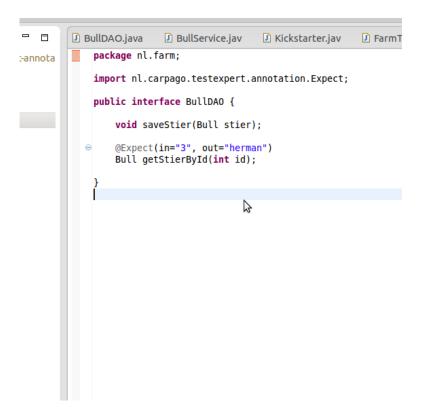
restrict yourself in harvesting good tests. Hence, of course, TestExpert can do that

tedious work for you. All you have to do is use the same paradigm as for creating

a test in your collaborating class or interface but use @Expect instead of @CreateUnittest

above the method which is called while running the code of your class under test.

For example:



After implementing this class above, we are ready to launce this as a Junit unittest.

The testclasses will now be generated in the src/test/generated-test folder (the returned String in getOutputFolder).

Have fun!

# Stay informed about Carpago's TestExpert

http://github.com/carpago/testexpert