HUSACCT Tool

HU Architecture Compliance Tool

16-05-2012
Recognition White Box Test - Java

1. Preperation for the Java Recognition Test (Java White-Box Test)

This tests uses a pre-defined source-code to check to correctness of the java-analyser. Implemented in the HUSACCT-tool. The following things have to be done, before or after performing this test.

1. Loading the 'Java Recognition Test'-application

1. Open Eclipse IDE. Create a new Java-project with name '*Java Recognition Test'*
2. Open your command prompt and 'cd' to until you are in the project folder.
3. Type the following commands now:
   a. git init   <ENTER>
   b. git remote add origin git@github.com:HUSACCT/HUSACCT-RecognitionTest.git <ENTER>
   c. git pull origin master   <ENTER>
   d. Go back to eclipse, select the project and click 'project->refresh'
   e. The Application, including this document and a result-folder, should now be loaded successfully.

2. Publishing a test-result

One important thing to always keep in mind: Do not overwrite the file 'Recognition Test Java.docx', but save your results in the 'results'-folder in the java-project. The name for your document should consist of the following parts: 'Results <Day>-<Month>-<Year>.docx'.

				White Box Tests & Results	
#	Type	Expected From	Expected To	√ / ✗	Remark
1.1	Annotation (annotation)	annotation.a.SamePackage	annotation.a.TheAnnotation		
1.2		annotation.b.OtherPackageA			
1.3		annotation.b.OtherPackageB			
1.4		annotation.b.OtherPackageC			
2.1	Exception (exception)	exception.a.SamePackageA	exception.a.TheException		
2.2		exception.a.SamePackageB			
2.3		exception.a.SamePackageC			
2.4		exception.b.OtherPackageA			
2.5		exception.b.OtherPackageB			
2.6		exception.b.OtherPackageC			
2.7		exception.b.OtherPackageD			
2.8		exception.b.OtherPackageE			
2.9		exception.b.OtherPackageF			
2.10		exception.b.OtherPackageG			
2.11		exception.b.OtherPackageH			
2.12		exception.b.OtherPackageI			
2.13		exception.b.OtherPackageJ			
3.1	Implements (implements)	implement.a.SamePackage	implement.a.TheInterface		
3.2		implement.b.OtherPackagaA			
3.3		implement.b.OtherPackageB			
3.4		implement.b.OtherPackageC			
4.1	Extend Concrete (extendsConcrete)	exentdsconcrete.a.SamePackage	extendsconcrete.a.ConreteClass		
4.2		extendsconcrete.b.OtherPackageA			
4.3		extendsconcrete.b.OtherPackageB			
4.4		extendsconcrete.b.OtherPackageC			
5.1	Extend Abstract (extendsAbtract)	extendsabstract.a.SamePackage	extendsabstract.a.AbstractClass		
5.2		extendsAbstract.a.OtherPackageA			
5.3		extendsAbstract.a.OtherPackageB			
5.4		extendsAbstract.a.OtherPackageC			

		White Box Tests & Results (continued)			
#	Type	Expected From	Expected To	√ / ✗	Remark
6.1	Parameter of a	parameters.a.SamePackage	parameters.a.TheType		
6.2	type	parameters.b.OtherPackageA			
6.3	(declaration)	parameters.b.OtherPackageB			
6.4		parameters.b.OtherPackageC			
7.1	Attribute of type	attrdeclaration.a.SamePackage	attrdeclaration.a.TheType		
7.2	(declaration)	attrdeclaration.b.OtherPackageA			
7.3		attrdeclaration.b.OtherPackageB			
7.4		attrdeclaration.b.OtherPackageC			
8.1.	Access property	accessfield.a.SamePackageA	accessfield.a.TheOwner		
8.2	or field	accessfield.a.SamePackageB			
8.3	(accesofpropertyorfield)	accessfield.b.OtherPackageA			
8.4		accessfield.b.OtherPackageB			
8.5		accessfield.b.OtherPackageC			
9.1	Local Variable	localvariables.a.SamePackage	localvariables.a.TheType		
9.2	(Declaration)	localvariables.b.OtherPackageA			
9.3		localvariables.b.OtherPackageB			
9.4		localvariables.b.OtherPackageC			
10.1	Loop Arguments	loops.a.SamePackage	loops.a.TheType		
10.2	(declaration)	loops.b.OtherPackageA			
10.3		loops.b.OtherPackageB			
10.4		loops.b.OtherPackageC			
11.1	Constructor	invocconstructor.a.SamePackage	invocconstructor.a.TheType		
11.2	Invocation	invocconstructor.b.OtherPackageA			
11.3	(invocConstructor)	invocconstructor.b.OtherPackageB			
11.4		invocconstructor.b.OtherPackageC			

#	Type	Expected From	Expected To	√ / ✗	Remark
			White Box Tests & Results (continued)		
12.1	Method Invocation	invocmethod.a.SamePackageA	invocmethod.a.TheType		
12.2	(invocMethod)	invocmethod.a.SamePackageB			
12.3		invocMethod.b.OtherPackageA			
12.4		invocMethod.b.OtherPackageB			
12.5		invocMethod.b.OtherPackageC			
12.6		invocMethod.b.OtherPackageD			
12.7		invocMethod.b.OtherPackageE			
12.8		invocMethod.b.OtherPackageF			
13.1	Enumeration	enumeration.a.SamePackage	enumeration.a.TheEnum		
13.2	(accesofpropertyorfield)	enumeration.b.OtherPackageA			
13.3		enumeration.b.OtherPackageB			
13.4		enumeration.b.OtherPackageC			