instantiations

Eclipse Productivity. Enterprise Quality.

Test Code Generation UI by Jaime Wren

Eclipse Demo Camp June 17th, 2009



instantiations

Eclipse Productivity. Enterprise Quality.

Context

A new UI is needed for our CodePro AnalytiX™
 JUnit Test generator.

```
_ D X
Java - DemoCampTest/src/com/instantiations/example/wren/ClassOneTest.java - Eclipse SDK
File Edit Source Refactor Navigate Search Project CodePro Run Window Help

☑ ClassOneTest.java 
☒

      package com.instantiations.example.wren;
                                                                        public class ClassOneTest {
      public class ClassOne {
                                                                            * Run the int branchingCode(int,int,int) method test.
         public int branchingCode(int x, int y, int z) {
                                                                            * @generatedBy CodePro at 6/15/09 12:31 PM
             if(x < 0 && y < 0 && z < 0) {
                 return 0:
             public void testBranchingCode 1()
                                                                               throws Exception {
             } else if (x > 0 &   y > 0 &   z > 0) {
                                                                               ClassOne fixture = new ClassOne();
                 return 2;
                                                                               int x = -1:
             } else {
                                                                               int v = -1;
                 return -1;
                                                                               int z = -1;
                                                                               int result = fixture.branchingCode(x, y, z);
                                                                               // add additional test code here
                                                                               assertEquals(0, result);
                                                                            * Run the int branchingCode(int,int,int) method test.
                                                                            * @generatedBy CodePro at 6/15/09 12:31 PM
                                                                           public void testBranchingCode 2()
                                                                               throws Exception {
                                                            Writable
                                                                       Smart Insert
```

Context (continued)

- Currently improving the test code generator and have the opportunity to revisit the GUI.
- The current feedback to the user is through the log.

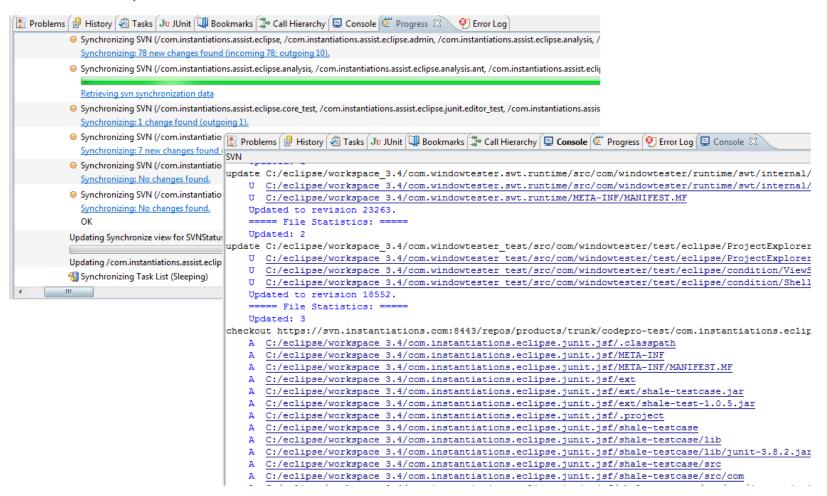
Requirements

- Eclipse look and feel
 - Re-use Eclipse icons and/ or decorators
- Need the UI to be a Problems, Progress and Navigator view.
- The UI must look and feel like a modern 3.5 GUI without requiring any SWT features from before Eclipse 2.1.
- The UI must have context sensitive actions to assist the user in editing algorithm preferences.
- Engineers of the algorithm will want additional information when developing and testing.



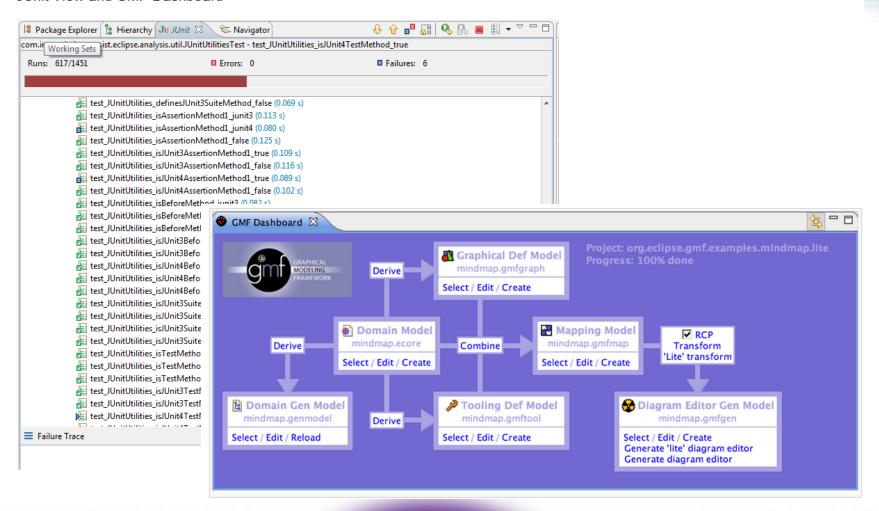
Other Eclipse Solutions- 1

Jobs and Text Output



Other Eclipse Solutions- 2

JUnit View and GMF Dashboard



instantiations

Eclipse Productivity. Enterprise Quality.

Demo

Pros and Cons

Pros

- Displays all information required
- The workflowpattern for resolving & reviewing issues.

Cons

- As a navigator, the project context is lost
- The tree depth of 3 is too much, takes too much screen realestate.

Q & A