Assessment Evaluation

For GMoDS Visualizer and Test Driver

Version 1.0

Submitted in partial fulfillment of the requirements of the degree of MSE

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1 Introduction

This document presents the results of testing the GMoDS Visualizer and Test Driver components.

1.1 References

1. "Test Plan 2.0" available at http://people.cis.ksu.edu/~mfraka/FrakaMSE.html.

2 Test Case Result Summary

Table 1 Test Case Result Summary

Test Case ID	Test Case Title	Tested	Results
		Features	
TC.GTD-1	Load Event Script	TF.GTD-1.1	Pass
		TF.GTD-1.2	
		TF.GTD-1.2.1	
		TF.GTD-1.2.2	
		TF.GTD-1.2.3	
TC.GTD-2	Event Script Operation	TF.GTD-1.5	Pass
		TF.GTD-1.6	
		TF.GTD-1.6.1	
		TF.GTD-1.6.2	
		TF.GTD-1.6.3	
		TF.GTD-1.6.4	
		TF.GV-3.1	
		TF.GV-3.2	
		TF.GV-3.3	
TC.GTD-3	Random Event Script Operation	TF.GTD-2.1.2	Pass
		TF.GTD-2.1.3	
		TF.GTD-2.1.4	
		TF.GTD-2.2	
		TF.GTD-2.3	
		TF.GV-3.1	
		TF.GV-3.2	
		TF.GV-3.3	
TC.GTD-4	Save Event Script	TF.GTD-2.3	Pass
		TF.GTD-3.1	
		TF.GTD-3.2	
		TF.GTD-3.2.1	
		TF.GTD-3.2.2	

Test Case ID	Test Case Title	Tested	Results
		Features	
TC.GV-1	Display Specification Tree	TF.GV-1.1	Pass
		TF.GV-1.2	
		TF.GV-1.3	
		TF.GV-1.4	
		TF.GV-1.5	
		TF.GV-1.6	
		TF.GV-1.7	
		TF.GV-1.8	
		TF.GV-1.9	
		TF.GV-1.10	
		TF.GV-1.11	
		TF.GV-1.12	
		TF.GV-1.13	
TC.GV-2	Display Instance Tree	TF.GV-2.1	Pass
		TF.GV-2.2	
		TF.GV-2.3	
		TF.GV-2.4	
		TF.GV-2.5	
		TF.GV-2.6	
		TF.GV-2.7	
		TF.GV-2.8	
TC.GV-3	Zooming	TF.GV-1.14	Pass
		TF.GV-2.9	
TC.GV-4	Show/Hide Instance Goals of Specific Types	TF.GV-2.10	Pass
TC.GV-5	Show/Hide All Specification Goal Parameters	TF.GV-4.1	Pass
TC.GV-6	Show/Hide All Instance Goal Parameters	TF.GV-5.1	Pass
TC.GV-7	Show/Hide Specific Instance Goal Parameters	TF.GV-6.1	Pass
TC.GV-8	Collapse/Expand Instance Goal Sub-tree	TF.GV-7.1	Pass
		TF.GV-7.2	
		TF.GV-7.3	
TC.GV-9	Change Instance Goal State Colors	TF.GV-3.3	Pass

3 Test Case Result Details

Table 2 Test Case Result Details

Date	Test Case	Manual or Simulation	Input Set	Status	Reasons For Failure	Action to Resolve
3/9/2011	TC.GTD-1	M	1	PASS		
	TC.GTD-1	M	2	PASS		
	TC.GTD-1	M	3	PASS		
	TC.GTD-1	M	4	PASS		
	TC.GTD-1	M	5	PASS		
	TC.GTD-1	M	6	PASS		
	TC.GTD-1	M	7	PASS		
	TC.GTD-2	M	1	PASS		

Date	Test Case	Manual or Simulation	Input Set	Status	Reasons For Failure	Action to Resolve
	TC.GTD-2	M	2	FAIL	Uncaught IllegalGoalEventException during play	Deferred Exceptions/Add Throw and Catches
	TC.GTD-2	M	2	PASS		
	TC.GTD-2	M	3	PASS		
	TC.GTD-2	M	4	PASS		
	TC.GTD-3	M	0	PASS		
	TC.GTD-4	M	1	PASS		
	TC.GTD-4	M	2	PASS		
	TC.GTD-4	M	3	PASS		
	TC.GTD-4	M	4	PASS		
	TC.GTD-4	M	5	PASS		
	TC.GTD-4	M	6	PASS		
3/10/2011	TC.GV-1	M	1	FAIL	Rightmost specification goal cutoff in drawing	Add margins to the image on the right and bottom.
	TC.GV-1	M	1	PASS		
	TC.GV-1	M	2	PASS		
	TC.GV-1	M	3	PASS		
	TC.GV-2	M	1	PASS		
	TC.GV-2	M	2	PASS		
	TC.GV-2	M	3	PASS		
	TC.GV-3	M	1	FAIL	Specification tree right/bottom cutoff when zoomed in	Set preferred size and revalidate after zoom.
	TC.GV-3	M	1	PASS		
	TC.GV-4	M	1	PASS		
	TC.GV-5	M	1	FAIL	Specification tree relation parameters not hidden	Add flag to prevent drawing parameters.
	TC.GV-6	M	1	PASS		
	TC.GV-7	M	1	PASS		
	TC.GV-8	M	1	PASS		
	TC.GV-9	M	1	PASS		
3/11/2011	TC.GV-1	S	0	PASS		
	TC.GV-2	S	0	PASS		
	TC.GV-5	S	0	FAIL	Specification tree relation parameters not hidden	Add flag to prevent drawing parameters.
	TC.GV-5	M	1	PASS		
	TC.GV-4	S	0	PASS		
	TC.GV-8	S	0	PASS		

Date	Test Case	Manual or Simulation	Input Set	Status	Reasons For Failure	Action to Resolve
	TC.GV-3	S	0	FAIL	Specification tree right cutoff when zoomed in	Set preferred size and revalidate after zoom.
	TC.GV-9	S	0	PASS		
3/15/2011	TC.GV-6	S	0	PASS		
	TC.GV-7	S	0	PASS		

4 Problems Encountered

Table 3 Problems Encountered

Test Case	Failure	Action to Resolve
TC.GTD-2 – Event Script Operation	Failed to catch an	Deferred and accumulated
	IllegalGoalEventException	IllegalGoalEventExceptions
	thrown when an invalid	while it is unsafe to throw
	GoalEvent is encountered	them. Added try/catch
	during event script play.	surrounding applicable code in
		the play, pause, and hasNext
		methods. Added throw of the
		cumulative
		IllegalGoalEventException
		when it becomes safe to do so.
TC.GV-1 – Display Specification Tree	Rightmost specification goal	Add margins to the image on
	cutoff in drawing.	the right and bottom.
TC.GV-3 – Zooming	Specification tree	The content of the JScrollPane,
	right/bottom cutoff when	the AbstractCanvas, resets its
	zoomed in.	preferred size and then calls
		the method "revalidate" after a
		zoom.
TC.GV-5 - Show/Hide All	Specification tree trigger	Added a flag to
Specification Goal Parameters	parameters not hidden.	AbstractTriggerUI to prevent
		drawing parameters when
		hidden.

5 Summary

All manual and simulation test cases were performed as planned and passed. Therefore, the GMoDS Test Driver and Visualizer are ready for production use.