<Project 1 Part 2> Black Box Test Plan

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Introduction

This test plan ensures that the all of Project 1 Part 2's requirements have been met. The project is tested by running SimulationViewer as a Java application.

Test ID	Description	Expected Results	Actual Results	
Test 1:	has been run as a Java dialog: "The number of dialog: "The number		A pop up window with the dialog: "The number of	
Non-Integer Shopping Cart Test	application and the GUI has loaded.	shopping carts must be an integer." appears.	shopping carts must be an integer." appears.	
Brian Morris	Number of Shopping Carts: abc Number of Checkout Registers: 7			
	Click: Start			
	Check Results			
	Click: OK			
	Close GUI window.			
Test 2:	Preconditions: SimulationViewer	A pop up window with the	A pop up window with the	
	has been run as a Java	dialog: "There must be at	dialog: "There must be at	
Negative Shopping	application and the GUI has	least one shopping cart in	least one shopping cart in	
Cart Test	loaded.	the simulation." appears.	the simulation." appears.	
Brian Morris	Number of Shopping Carts: -1 Number of Checkout Registers: 7			
	Click: Start			
	Check Results			
	Click: OK			
	Close GUI window.			
Test 3:	Preconditions: SimulationViewer	Simulation proceeds,	Simulation proceeds,	
	has been run as a Java	displaying the appropriate	displaying the appropriate	
Lower Boundary	application and the GUI has number of shopping carts number of shopping		number of shopping carts	
Register Test	loaded.	and registers.	and registers.	
Brian Morris	Number of Shopping Carts: 5 Number of Checkout Registers: 3			
	Click: Start			
	Check Results			

	T		T T
	Close GUI window.		
Test 4:	Preconditions: SimulationViewer	Simulation proceeds,	Simulation proceeds,
	has been run as a Java	displaying shopping carts	displaying shopping carts
Upper Boundary	application and the GUI has	and registers.	and registers.
Register Test	loaded.		
B.d. Adv. d.	N. other of Character Coats 5		
Brian Morris	Number of Shopping Carts: 5 Number of Checkout Registers:		
	12		
	Click: Start		
	Check Results		
	Character to be		
Tost F:	Close GUI window. Preconditions: SimulationViewer	A non un window · · · · th the	A non un window with the
Test 5:	has been run as a Java	A pop up window with the dialog "Number of registers	A pop up window with the dialog "Number of registers
Invalid Register Test	application and the GUI has	must be between 3 and 12	must be between 3 and 12
Lower Bound	loaded.	inclusive." appears.	inclusive." appears.
Brian Morris	Number of Shopping Carts: 5		
	Number of Checkout Registers: 2		
	Click: Start		
	Check Results		
	Click: OK		
	Close GUI window.		
Test 6:	Preconditions: SimulationViewer	A pop up window with the	A pop up window with the
	has been run as a Java	dialog "Number of registers	dialog "Number of registers
Invalid Register Test	application and the GUI has	must be between 3 and 12	must be between 3 and 12
Upper Bound	loaded.	inclusive." appears.	inclusive." appears.
Brian Morris	Number of Shopping Carts: 5		
	Number of Checkout Registers:		
	13		
	Click: Start		
	Circle Start		
	Check Results		
	Click: OK		
	Class CIII window		
Test 7:	Close GUI window. Preconditions: SimulationViewer	The GUI window closes.	The GUI window closes.
1631 / .	has been run as a Java	THE GOT WITHOUT CIUSES.	THE GOT WINDOW CIOSES.
Quit Button Exits	application and the GUI has		
Window	loaded.		
Brian Morris	Click: Quit		
	Check Results		

		No SpecialHandlingCarts
has been run as a Java application and the GUI has loaded.	entered the first 3 lines.	entered the first 3 lines.
Number of Shopping Carts: 100 Number of Checkout Registers: 4 Click: Start		
Check Results		
Close GUI window.		
Preconditions: SimulationViewer	No SpecialHandlingCarts	No SpecialHandlingCarts
		entered the first 6 lines.
Number of Shopping Carts: 200 Number of Checkout Registers: 8 Click: Start		
Check Results		
Close GUI window.		
Preconditions: SimulationViewer	No SpecialHandlingCarts	No SpecialHandlingCarts
has been run as a Java	entered the first 9 lines.	entered the first 9 lines.
application and the GUI has loaded.		
Number of Shopping Carts: 300 Number of Checkout Registers: 12 Click: Start		
Check Results		
Close GUI window.		
Preconditions: SimulationViewer has been run as a Java	No RegularShoppingCarts entered the first line.	No RegularShoppingCarts entered the first line.
loaded.		
Number of Shopping Carts: 300 Number of Checkout Registers: 12 Click: Start		
Check Results		
Close GUI window.		
Preconditions: SimulationViewer	ExpressCarts enter the	ExpressCarts enter the
has been run as a Java	shortest line, even if it is not	shortest line, even if it is not
		the Express Line.
	has been run as a Java application and the GUI has loaded. Number of Shopping Carts: 100 Number of Checkout Registers: 4 Click: Start Check Results Close GUI window. Preconditions: SimulationViewer has been run as a Java application and the GUI has loaded. Number of Shopping Carts: 200 Number of Checkout Registers: 8 Click: Start Check Results Close GUI window. Preconditions: SimulationViewer has been run as a Java application and the GUI has loaded. Number of Shopping Carts: 300 Number of Checkout Registers: 12 Click: Start Check Results Close GUI window. Preconditions: SimulationViewer has been run as a Java application and the GUI has loaded. Number of Shopping Carts: 300 Number of Checkout Registers: 12 Click: Start Check Results Close GUI window. Preconditions: SimulationViewer has been run as a Java application and the GUI has loaded. Number of Shopping Carts: 300 Number of Checkout Registers: 12 Click: Start Check Results Close GUI window. Preconditions: SimulationViewer has been run as a Java application and the GUI has	has been run as a Java application and the GUI has loaded. Number of Shopping Carts: 100 Number of Checkout Registers: 4 Click: Start Check Results Close GUI window. Preconditions: SimulationViewer has been run as a Java application and the GUI has loaded. Number of Shopping Carts: 200 Number of Checkout Registers: 8 Click: Start Check Results Close GUI window. Preconditions: SimulationViewer has been run as a Java application and the GUI has loaded. Number of Shopping Carts: 300 Number of Checkout Registers: 12 Click: Start Check Results Close GUI window. Preconditions: SimulationViewer has been run as a Java application and the GUI has loaded. Number of Shopping Carts: 300 Number of Checkout Registers: 12 Click: Start Check Results Close GUI window. Preconditions: SimulationViewer has been run as a Java application and the GUI has loaded. Number of Shopping Carts: 300 Number of Checkout Registers: 12 Click: Start Check Results Close GUI window. Preconditions: SimulationViewer has been run as a Java application and the GUI has loaded. ExpressCarts enter the shortest line, even if it is not the Express Line.

Brian Morris	Number of Shopping Carts: 300 Number of Checkout Registers: 12 Animation Speed: Slow (All the way left) Click: Start Check Results Close GUI window.		
Test 13:	Preconditions: SimulationViewer	The simulation runs and	The simulation runs and
Simulation Complete Results Displayed Brian Morris	has been run as a Java application and the GUI has loaded. Number of Shopping Carts: 300 Number of Checkout Registers:	completes. Average Wait Time and Average Checkout Time are displayed and non- zero. Progress bar is full.	completes. Average Wait Time and Average Checkout Time are displayed and non- zero. Progress bar is full.
	12 Animation Speed: Fast (All the way right) Click: Start Check Results Close GUI window.		
Test 14:	Preconditions: SimulationViewer	The Legend is ordered as	The Legend is ordered as
	has been run as a Java	followed:	followed:
Appropriate Colors	application and the GUI has		
and Labels	loaded.	Green – ExpressCart	Green – ExpressCart
Brian Morris	Check Results	Blue – RegularShoppingCart Red - SpecialHandlingCart	Blue – RegularShoppingCart Red - SpecialHandlingCart
Test 15:	Preconditions: SimulationViewer	The simulation processes	The simulation processes
1631 13.	has been run as a Java	much quicker.	much quicker.
Animation Speed	application and the GUI has		The second secon
Slider Adjusts Appropriately	loaded.	The simulation processes much slower.	The simulation processes much slower.
Brian Morris	Number of Shopping Carts: 300 Number of Checkout Registers: 12 Click: Start		
	Number of Shopping Carts: 300 Number of Checkout Registers: 12		
	Animation Speed: Fast (All the way right) Click: Start		
	Check Results		
	Number of Shopping Carts: 300 Number of Checkout Registers: 12 Animation Speed: Slow (All the way left		

Click: Start	
Check Results	
Close GUI window.	

Document Revision History

Date	Author	Change Description
03/02/2017	Brian Morris	Added 15 test cases.