## ServiceManager Black Box Test Plan

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## Introduction

To run the tests:

- 1. Right click on ServiceManagerGUI class in the Package Explorer.
- 2. Select Run As > Java Application

All tests files are located in the test-files/ folder.

Note that while all tests end with the statement to Close GUI, you can run Tests 1, 3-13, and 16 can be run on the same GUI if there are no failures. If there are failures, you can use the preconditions to identify the dependent test cases.

Test ID	Description	Expected Results	Actual Results
Test1: Test Load Vehicle Queue (Will Parker,	Preconditions: None  Run ServiceManagerGUI from the Command Line with no argument for file to load	ServiceManagerGUI opens with 8 empty service bays in the Service Bays window (108, 106, 105, 103, 102, E01, E04, E07) and no vehicles in the queue.	ServiceManagerGUI opens with 8 empty service bays in the Service Bays window (108, 106, 105, 103, 102, E01, E04, E07) and no vehicles in the queue.
Christine Park)	Select the <b>test-files/cars.txt</b> in the resulting file chooser window  Check results Close GUI	After selecting the cars.txt file 27 vehicles are displayed in the Vehicles Awaiting Service window listed first in order of descending tier (Platinum first, Gold second, Silver third, and no priority fourth) followed by order in the file.  R Platinum HI-01345 Rhyne, Lauren	After selecting the cars.txt file 27 vehicles are displayed in the Vehicles Awaiting Service window listed first in order of descending tier (Platinum first, Gold second, Silver third, and no priority fourth) followed by order in the file.  R Platinum HI-01345 Rhyne, Lauren
		 E None NC-1233 Doe, Baby John	E None NC-1233 Doe, Baby John
Test2: Filter Vehicles (Will Parker, Christine Park)	Preconditions: Test1 has passed  Enter "H" in the Display Filter window  Check results	The Vehicles Awaiting Service list is filtered to only show vehicles belonging to Henderson, William and Hughes, Jack	The Vehicles Awaiting Service list is filtered to only show vehicles belonging to Henderson, William and Hughes, Jack
Test3: Add	Close GUI  Preconditions: Test1 has passed	Will Parker's vehicle is now populated in the	Will Parker's vehicle is now populated in
Platinum Standard Vehicle To Queue (Will Parker, Christine Park)	Click Add New Vehicle  Hybrid/Electric: Unchecked Customer: Parker, Will License: 867-5309 Service Tier: Platinum	Vehicles Awaiting Service list at the bottom of the vehicles with Platinum tier service priority (below Fiona Richards' car)	the Vehicles Awaiting Service list at the bottom of the vehicles with Platinum tier service priority (below Fiona Richards' car)
	Click <b>Submit</b> Check results		
	Close GUI		
Test4: Add Gold	Preconditions: Test1 has passed	Goldie Locks' vehicle is now populated in the Vehicles Awaiting Service list at the bottom	Goldie Locks' vehicle is now populated in the Vehicles Awaiting Service list at
Standard Vehicle To Queue (Will Parker, Christine Park)	Click Add New Vehicle  Hybrid/Electric: Unchecked  Customer: Locks, Goldie  License: Too-Hot  Service Tier: Gold	of the vehicles with Gold tier service priority (below Richard Wilson's car)	the bottom of the vehicles with Gold tier service priority (below Richard Wilson's car)
	Click <b>Submit</b>		

	Check results Close GUI		
Test5: Add Silver Standard Vehicle To Queue (Will Parker, Christine Park)	Preconditions: Test1 has passed  Click Add New Vehicle  Hybrid/Electric: Unchecked Customer: Helsing, Van License: St-Ag Service Tier: Silver  Click Submit	Van Helsing's vehicle is now populated in the Vehicles Awaiting Service list at the bottom of the vehicles with Silver tier service priority (below Richard Bell's car)	Van Helsing's vehicle is now populated in the Vehicles Awaiting Service list at the bottom of the vehicles with Silver tier service priority (below Richard Bell's car)
Test6: Add Standard Vehicle with No Tier To	Check results Close GUI  Preconditions: Test1 has passed  Click Add New Vehicle	Will Wait's vehicle is now populated in the Vehicles Awaiting Service list at the bottom of the vehicles with None tier service priority (below Baby John Doe's)	Will Wait's vehicle is now populated in the Vehicles Awaiting Service list at the bottom of the vehicles with None tier service priority (below Baby John Doe's)
Queue (Will Parker, Christine Park)	Hybrid/Electric: Unchecked Customer: Wait, Will License: No-Hurry Service Tier: None Click Submit		
Test7: Add Hybrid Electric Vehicle To Queue (Will Parker, Christine Park)	Check results Close GUI  Preconditions: Test1 has passed  Click Add New Vehicle  Hybrid/Electric: Checked Customer: Drone, Elon License: 2Cool4U Service Tier: Platinum  Click Submit	Elon Drone's vehicle is now populated in the Vehicles Awaiting Service list at the bottom of the vehicles with Platinum tier service priority (below Will Parker's)	Elon Drone's vehicle is now populated in the Vehicles Awaiting Service list at the bottom of the vehicles with Platinum tier service priority (below Will Parker's)
Test8:	Check results Close GUI  Preconditions: Tests 1 and 3-7 have	Initially there are a total of 31 vehicles in the	Initially there are a total of 31 vehicles in
Remove Vehicles from Queue (Will Parker, Christine Park)	passed.  Select Will Parker's vehicle from the Vehicles Awaiting Service list  Click Remove Selected Vehicle	Vehicles belong to Will Parker, Goldie Locks, Van Helsing, Will Wait, and Elon Drone are then removed from the Vehicles Awaiting Service list.	the list.  Vehicles belong to Will Parker, Goldie Locks, Van Helsing, Will Wait, and Elon Drone are then removed from the Vehicles Awaiting Service list.
	Select Goldie Locks' vehicle from the Vehicles Awaiting Service list  Click Remove Selected Vehicle  Select Van Helsing's vehicle from the Vehicles Awaiting Service list  Click Remove Selected Vehicle	There are 27 vehicles that are displayed in the Vehicles Awaiting Service window listed first in order of descending tier (Platinum first, Gold second, Silver third, and no priority fourth) followed by order in the file.  R Platinum HI-01345 Rhyne, Lauren E None NC-1233 Doe, Baby John	There are 27 vehicles that are displayed in the Vehicles Awaiting Service window listed first in order of descending tier (Platinum first, Gold second, Silver third, and no priority fourth) followed by order in the file.  R Platinum HI-01345 Rhyne, Lauren
	Select Will Wait's vehicle from the Vehicles Awaiting Service list  Click Remove Selected Vehicle	E Notie NC-1233 Due, Baby John	E None NC-1233 Doe, Baby John

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	Select <b>Elon Drone's</b> vehicle from the Vehicles Awaiting Service list		
	Click Remove Selected Vehicle		
	Check results		
	Close GUI		
Test9: Add	Preconditions: Test1 has passed	Message: Owner name cannot be blank.	Message: Owner name cannot be blank.
Vehicle with No Name (Will Parker, Christine	Click Add New Vehicle		
	Hybrid/Electric: Unchecked		
Park)	Customer:		
	License: 867-5309		
	Service Tier: Platinum		
	Click <b>Submit</b>		
	Check results		
	Click <b>OK</b>		
	Close GUI		
Test10: Add	Preconditions: Test1 has passed	Message: License cannot be blank.	Message: License cannot be blank.
Vehicle with No License (Will Parker,	Click Add New Vehicle		
Christine	Hybrid/Electric: Unchecked		
Park)	Customer: Parker, Will		
	License:		
	Service Tier: Platinum		
	Click <b>Submit</b>		
	Check results		
	Click <b>OK</b>		
	Close GUI		
Test11: Add	Preconditions: Test1 has passed	Message: License cannot be more than 8	Message: License cannot be more than
Vehicle with License Too Long	Click Add New Vehicle	characters.	8 characters.
(Will Parker,	Hybrid/Electric: Unchecked		
Christine	Customer: Parker, Will		
Park)	License: NineChars Service Tier: Platinum		
	Click <b>Submit</b>		
	Check results		
	Click <b>OK</b>		
	Close GUI		
l		Dlake Voung's vehicle's service tier has been	Blake Young's vehicle's service tier has
Test12:	Preconditions: Test1 has passed	Blake Young's vehicle's service tier has been	
Reassign Vehicle's	Preconditions: Test1 has passed  Select Blake Young's vehicle	updated to Platinum in the Vehicles Awaiting Service list and comes after Fiona Richards	been updated to Platinum in the Vehicles Awaiting Service list and comes
Reassign		updated to Platinum in the Vehicles Awaiting	been updated to Platinum in the

	Click <b>Submit</b>		
	Check results		
	Close GUI		
Test13: Add	Preconditions: Test1 has passed	Service bays are added in order as shown	Service bays are added in order as
Service Bays (Will Parker,	Click <b>Add Service Bay</b> 23 times	below:	shown below:
Christine	Click Add Service Bay 23 times	109: EMPTY	109: EMPTY
Park)	Check results	E10: EMPTY	E10: EMPTY
	Close GUI	111: EMPTY   112: EMPTY	111: EMPTY 112: EMPTY
	Close doi	E13: EMPTY	E13: EMPTY
		114: EMPTY	114: EMPTY
		115: EMPTY E16: EMPTY	115: EMPTY E16: EMPTY
		117: EMPTY	117: EMPTY
		118: EMPTY	118: EMPTY
		E19: EMPTY 120: EMPTY	E19: EMPTY 120: EMPTY
		120. EMPTY	120. EMPTY
		E22: EMPTY	E22: EMPTY
		123: EMPTY	123: EMPTY
		124: EMPTY   E25: EMPTY	124: EMPTY E25: EMPTY
		126: EMPTY	126: EMPTY
		127: EMTPY	127: EMTPY
		E28: EMPTY   129: EMPTY	E28: EMPTY 129: EMPTY
		130: EMPTY	130: EMPTY
		No Service bay is added on 23 <sup>rd</sup> click	No Service bay is added on 23 <sup>rd</sup> click
Test14: Fill	Preconditions: Test1 has passed	The service bays have been filled as below:	The service bays have been filled as
Service Bays	·	-	below:
(Will Parker, Christine	Click Fill Service Bays	108: HI-01345 Rhyne, Lauren 106: NC-DUR1 Nicholson, Henry	108: HI-01345 Rhyne, Lauren
Park)	Check results	105: SC-RT098 Richards, Fiona	106: NC-DUR1 Nicholson, Henry
		103: VIRG0122 Jones, Francis	105: SC-RT098 Richards, Fiona
	Close GUI	102: IL20987 Masters, Burt E01: FL-M3456 McKeel, Kenneth	103: VIRG0122 Jones, Francis 102: IL20987 Masters, Burt
		E01: FL-M3436 McKeel, Kelliletti E04: 0987-NC Nelson, Richard	E01: FL-M3456 McKeel, Kenneth
		E07: NC-5678 Emerson, Jane	E04: 0987-NC Nelson, Richard
		The above vehicles are no longer in the	E07: NC-5678 Emerson, Jane
		Vehicles Awaiting Service list	The above vehicles are no longer in the
		-	Vehicles Awaiting Service list
Test15: Finish	<b>Preconditions:</b> Tests 1 and 14 have passed	The service bays are filled as below:	The service bays are filled as below:
Vehicle	Select 108: HI-01345 Rhyne, Lauren from	108: EMPTY	108: EMPTY
Repair	the Service Bays window	106: NC-DUR1 Nicholson, Henry	106: NC-DUR1 Nicholson, Henry
(Will Parker, Christine	Click Finish Repair of Selected Vehicle	105: SC-RT098 Richards, Fiona 103: VIRG0122 Jones, Francis	105: SC-RT098 Richards, Fiona 103: VIRG0122 Jones, Francis
Park)	Check I mish Repair of Selected Vehicle	103: VIKG0122 Jolles, Francis 102: IL20987 Masters, Burt	103: VINGUIZZ Jones, Francis 102: IL20987 Masters, Burt
	Check results	E01: FL-M3456 McKeel, Kenneth	E01: FL-M3456 McKeel, Kenneth
	Close GUI	E04: 0987-NC Nelson, Richard E07: NC-5678 Emerson, Jane	E04: 0987-NC Nelson, Richard E07: NC-5678 Emerson, Jane
Test16: Quit	Preconditions: Test1 has passed	Program exits	Program exits
Program			
(Will Parker, Christine	Click Quit		
Park)	Check results		
Test17: Load	Preconditions: None	Error Message: Vehicle file not found.	Error Message: Vehicle file not found.
with Invalid File in	Open Arguments tab under Run > Run	Program exits	Program exits
Command	Configurations in Eclipse.		
Line	Type test-files/not_a_file.txt in the text		

(Will Parker,	area	
Christine	Click Apply	
Park)	Check results	
	Click <b>OK</b>	
	Check results	

## **Document Revision History**

Date	Author	Change Description
7/2/20	Will Parker	Development of initial tests evaluating main flows through software
7/19/20	Christine Park	Updated tests and added actual test results