System Test Plan: Sales program

Introduction: The text in bold in the **Description** column represents the test inputs.

Test Files: (List each test file below.)

Test ID	Description	Expected Results	Actual Results

testTooFewArgs
 	
Author: Dr. Balik
	$ java -cp bin Sales	`Usage: java -cp bin Sales infile outfile`
		
		`Program quits.`
			`Usage: java -cp bin Sales infile outfile`
			
			`Program quits.`

testTooManyArgs
 	
Author: Dr. Balik
	$ java -cp bin Sales test-files/inventory.txt test-files/updatedInventory.txt extraArg	`Usage: java -cp bin Sales infile outfile`
		
		`Program quits.`
			`Usage: java -cp bin Sales infile outfile`
			
			`Program quits.`

testInputFileAccess
 	
Author: Dr. Balik
	$ java -cp bin Sales test-files/notafile.txt test-files/output.txt	`Unable to access input file:`
		`test-files/notafile.txt`
		
		`Program quits.`
			`Unable to access input file:`
			`test-files/notafile.txt`
			
			`Program quits.`

testOutputFileCreation
 	
Author: Dr. Balik
	$ java -cp bin Sales test-files/inventory.txt notadirectory/updatedInventory.txt	`Cannot create output file`
		
		`Program quits.`
			`Cannot create output file`
			
			`Program quits.`

testOptionMenu
 	
Author: Dr. Balik
	Delete the test-files/updatedInventory.txt, if it exists
	
	$ java -cp bin Sales test-files/inventory.txt test-files/updatedInventory.txt
		`Sales Program - Please choose an option.`
		
		`L - List items`
		`S - Search by item name`
		`P - Purchase item`
		`Q - Quit`
		
		`Option:`
			`Sales Program - Please choose an option.`
			
			`L - List items`
			`S - Search by item name`
			`P - Purchase item`
			`Q - Quit`
			
			`Option:`

Test ID	Description	Expected Results	Actual Results
testQuit Author: Dr. Balik	Delete test-files/updatedInventory.txt, if it exists **$ java -cp bin Sales test-files/inventory.txt test-files/updatedInventory.txt** Menu is displayed Option: **q**	`Program quits.`	`Program quits.`

testInvalidOption
 	
Author: Dr. Balik
	Delete test-files/updatedInventory.txt, if it exists
	
	$ java -cp bin Sales test-files/inventory.txt test-files/updatedInventory.txt
	
	Menu is displayed
	
	Option: **quit**
	
	(Ctrl+C to stop execution)
		`Invalid option`
		
		`Menu is redisplayed`
			`Invalid option`
			
			`Menu is redisplayed`

testList
 	
Author: Dr. Balik
	Delete test-files/updatedCandyInventory.txt, if it exists
	
	$ java -cp bin Sales test-files/candyInventory.txt test-files/updatedCandyInventory.txt
	
	Menu is displayed
	
	Option: **L**
		``` ID Name Quantity LH8869 Lemonheads 20 AH1289 Airheads 15 GB9806 Gummy Bears 18 JR6578 Jolly Ranchers 12 ```
		
		`Menu is displayed.`
			``` ID Name Quantity LH8869 Lemonheads 20 AH1289 Airheads 15 GB9806 Gummy Bears 18 JR6578 Jolly Ranchers 12 ```
			
			`Menu is displayed.`

testSearchName
 	
Author: Dr. Balik
	Delete test-files/updatedCandyInventory.txt, if it exists
	
	$ java -cp bin Sales test-files/candyInventory.txt test-files/updatedCandyInventory.txt
	
	Menu is displayed
	
	Option: **S**
	Item name (is/contains): **head**
		``` ID Name Quantity LH8869 Lemonheads 20 AH1289 Airheads 15 ```
		
		`Menu is displayed.`
			``` ID Name Quantity LH8869 Lemonheads 20 AH1289 Airheads 15 ```
			
			`Menu is displayed.`

Test ID	Description	Expected Results	Actual Results
| testMultipleActions<br><br>Author: Mrs. Glatz | Delete test-files/updatedCandyInventory.txt, if it exists<br><br>**$ java -cp bin Sales test-files/candyInventory.txt test-files/updatedCandyInventory.txt**<br><br>Sales Program – Please choose an option.<br><br>L – List items<br>S – Search by item name<br>P – Purchase item<br>Q – Quit<br><br>Option: **P**<br>Item id: **LH8869**<br>Quantity: **12**<br>Successful purchase<br><br>Sales Program – Please choose an option.<br><br>L – List items<br>S – Search by item name<br>P – Purchase item<br>Q – Quit<br><br>Option: **B**<br><br>Invalid option<br><br>Sales Program – Please choose an option.<br><br>L – List items<br>S – Search by item name<br>P – Purchase item<br>Q – Quit<br><br>**Option: L** | ```
ID      Name        Quantity
LH8869  Lemonheads         8
AH1289  Airheads          15
GB9806  Gummy Bears       18
JR6578  Jolly Ranchers    12


Sales Program – Please choose an
option.

L – List items
S – Search by item name
P – Purchase item
Q – Quit

Option:
``` | ```
ID      Name        Quantity
LH8869  Lemonheads         8
AH1289  Airheads          15
GB9806  Gummy Bears       18
JR6578  Jolly Ranchers    12


Sales Program – Please choose an
option.

L – List items
S – Search by item name
P – Purchase item
Q – Quit

Option:
``` |

Test ID	Description	Expected Results	Actual Results

testNoOverwrite
 	
Author: Dr. Balik
	Check timestamp for test-files/existingfile.txt
	
	$ java -cp bin Sales test-files/inventory.txt test-files/existingfile.txt
	test-files/existingfile.txt exists - OK to overwrite (y,n)?: **no**
		```Program quits.```
		
		```Timestamp for test-files/existingfile.txt has not changed.```
			```Program quits.```
			
			```Timestamp for test-files/existingfile.txt has not changed.```

testOverwrite
 	
Author: Dr. Balik
	Check timestamp for test-files/existingfile.txt
	
	$ java -cp bin Sales test-files/inventory.txt test-files/existingfile.txt
	test-files/existingfile.txt exists - OK to overwrite (y,n)?: **yes**
	
	Menu is displayed
	
	Option: **q**
		```Program quits.```
		
		```Timestamp for test-files/existingfile.txt has changed.```
			```Program quits.```
			
			```Timestamp for test-files/existingfile.txt has changed.```

testSearchNameWithSpace
 	
Author: Dr. Balik
	Delete test-files/updatedCandyInventory.txt, if it exists
	
	$ java -cp bin Sales test-files/candyInventory.txt test-files/updatedCandyInventory.txt
	
	Menu is displayed
	
	Option: **s**
	Item name (is/contains): **y be**
		```ID Name Quantity```
		```GB9806 Gummy Bears 18```
		
		```Menu is displayed.```
			```ID Name Quantity```
			```GB9806 Gummy Bears 18```
			
			```Menu is displayed.```

Test ID	Description	Expected Results	Actual Results
testPurchaseInvalidItem Author: Benjamin Uy	Delete test-files/updatedNewInventory.txt, if it exists $ java -cp bin Sales test-files/newInventory.txt test-files/updatedNewInventory.txt Menu is displayed Option: **P** Item id: **Pencil**	Invalid item Menu is displayed	Invalid item Menu is displayed
testPurchaseNonintegerQuantity Author: Benjamin Uy	Delete test-files/updatedNewInventory.txt, if it exists $ java -cp bin Sales test-files/newInventory.txt test-files/updatedNewInventory.txt Menu is displayed Option: **P** Item id: **PE0195** Quantity: **3.0**	Invalid quantity Menu is displayed	Invalid quantity Menu is displayed
testPurchaseNegativeQuantity Author: Benjamin Uy	Delete test-files/updatedNewInventory.txt, if it exists $ java -cp bin Sales test-files/newInventory.txt test-files/updatedNewInventory.txt Menu is displayed Option: **P** Item id: **PE0195** Quantity: **-1**	Invalid quantity Menu is displayed	Invalid quantity Menu is displayed
testPurchaseInsufficientQuantity Author: Benjamin Uy	Delete test-files/updatedNewInventory.txt, if it exists $ java -cp bin Sales test-files/newInventory.txt test-files/updatedNewInventory.txt Menu is displayed Option: **P** Item id: **DO1162**	Insufficient quantity Menu is displayed	Insufficient quantity Menu is displayed

	Quantity: **10**		
Test ID	Description	Expected Results	Actual Results
testTwoSuccessfulPurchases Author: Benjamin Uy	Delete test-files/updatedNewInventory.txt, if it exists `$ java -cp bin Sales test-files/newInventory.txt test-files/updatedNewInventory.txt` Menu is displayed Option: **P** Item id: **DO1162** Quantity: **1** Successful purchase Menu is displayed Option: **P** Item id: **MU5170** Quantity: **2** Successful purchase Menu is displayed Option: **Q**	Program quits. updatedNewInventory.txt is the same as exp_updatedNewInventory.txt	Program quits. `$ diff test-files/updatedNewInventory.txt test-files/exp_updatedNewInventory.txt` 1, 3c1, 3 < PE0195,pencil,34 < DO1162,cooking oil,0 < CT1920,white tablecloths,9 --- > PE0195,pencil,34 > DO1162,cooking oil,0 > CT1920,white tablecloths,9
testInvalidInventoryTwoTokensOnLine Author: Benjamin Uy	Delete test-files/output.txt, if it exists $ **java -cp bin Sales test-files/twoTokensOnLine.txt test-files/output.txt**	Invalid input file	Invalid input file
testInvalidInventoryExtraTokenOnLineAfterQuantity Author: Benjamin Uy	Delete test-files/output.txt, if it exists $ **java -cp bin Sales test-files/extraTokenOnLine.txt test-files/output.txt**	Invalid input file	Invalid input file
testInvalidInventoryNonintegerQuantity Author: Benjamin Uy	Delete test-files/output.txt, if it exists $ **java -cp bin Sales test-files/nonintegerQuantity.txt test-files/output.txt**	Invalid input file	Invalid input file

testInvalidInventoryNegativeQuantity Author: Benjamin Uy	Delete test-files/output.txt, if it exists $ **java -cp bin Sales test-files/negativeQuantity.txt test-files/output.txt**	`Invalid input file`	`Invalid input file`
testInvalidInventoryDuplicateItems Author: Benjamin Uy	Delete test-files/output.txt, if it exists $ **java -cp bin Sales test-files/duplicateItems.txt test-files/output.txt**	`Invalid input file`	`Invalid input file`