

Stock Register

Test Report

Version<1.0>



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View History

Version #	Implemented by	Revision on Date	Brief Description
1.0	Sai Kishore Kesaram Sairipally Sai Surya		It's a general store stock management system.

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1.0 Introduction

1.1 Purpose

This Stock Register Test Report provides a summary of the results of test performed as outlined within this document.

2.0 TEST PLAN

The software will be tested in the following order

1. Unit Testing
2. System Testing

Unit Testing:-

In this testing each function in the code will be tested separately. All possible sets of inputs will be used to test the function. Expected and the actual output will be noted for each function. Criteria to fail/pass the function are also mentioned.

System Testing:-

There are many systems/units in this software such as filling specifications of the required goods, bill payment etc. These units are tested individually. Set inputs are used to test and end results are examined.

3.0 Details of Unit testing

3.1 Customer Login

3.1.1 Customer login

3.1.2 Features to be tested:- When the username and the password of the customer are entered it should verify whether entered credentials are correct or wrong.

3.1.3 Item pass/fail criteria: - It should return true if the username and password are correct.

Test ID	INPUT Username	INPUT Password	Actual Outcome	Expected Outcome	Pass/Fail	Description
3.1.1.1	Correct	Incorrect	False	False	Pass	
3.1.1.2	Incorrect	Correct	False	False	Pass	
3.1.1.3	Incorrect	Incorrect	False	False	Pass	
3.1.1.4	Correct	Correct	True	True	Pass	

3.2 Place Order

3.2.1 Place order

3.2.2 Features to be tested:- It takes the number corresponding to the good you want to purchase and stores it an array, And now takes the number of above mentioned goods you want to purchase and stores it in another array. If the number corresponding to the good is 51 then the function returns false. After this the function asks the customer if he wants to continue the shopping, If no then the function returns true otherwise the loop is repeated.

3.2.3 Item pass/fail criteria:- When m=51 the function should return false and when k=n the function should return to true.

Test Number	Input/local variable	Expected Output	Actual Output	Pass / Fail	
3.2.2.1	m	If m=51 function should return false.	If m=51 function returns false.	Pass	

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3.2.2.2	k	If k=n it should return false.	It returns false.	Pass	
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3.3 Add good

3.3.1 Add Good

3.3.2 Features to be tested:- The quantity of the goods should be increased by unity

3.3.3 Pass/Fail criteria:- The quantity should be increased by unity.

Test Number	Input/local Variable	Expected Output	Actual Output	Pass / Fail
3.3.2.1	quantity	Should increase quantity by 1.	Increases quantity by 1.	Pass

3.4 Remove good

3.4.1 Remove good

3.4.2 Features to be tested: - Should decrease the quantity by 1 only if quantity is greater than 0 or else it should print invalid.

3.4.3 Pass/Fail criteria: - If quantity less than 1 should print invalid or else decrease the quantity by 1.

Test Number	Input/local Variable	Expected Output	Actual Output	Pass / Fail
3.4.2.1	quantity < 1	Should print invalid.	Prints invalid	Pass
3.4.2.2	quantity >= 1	Should decrease quantity by 1.	Decreases quantity by 1.	Pass

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3.5 Requested goods

- 3.5.1 Processes the requested goods
- 3.5.2 Features to be tested:- This function should sort the ordered goods according to their availability into 2 arrays.
- 3.5.3 Pass/Fail criteria: - Goods not in stock are to be stores in array d, Goods in stock are to be stored in array c.

Test Number	Input/local Variable	Expected Output	Actual Output	Pass / Fail
3.5.2.1	c[i]	Should store number corresponding to ordered goods in stock	Stores number corresponding to ordered goods in stock	Pass
3.5.2.2	d[i]	Should store number corresponding to ordered goods not in stock.	Stores number corresponding to ordered goods not in stock	Pass

3.6 System Order goods

- 3.6.1 System order goods
- 3.6.2 Features to be tested: - Should the goods which are ordered by the customer and not in stock.
- 3.6.3 Pass/Fail criteria: - It should order the goods not in stock and update the quantity.

Test Number	Input/local Variable	Expected Output	Actual Output	Pass / Fail
3.6.2.1	No input	Should update the quantity and print "The order for the goods out of stock is made".	Prints "The order for the goods out of stock is made" and updates quantity.	Pass

3.7 Generate t_id

3.7.1 Generate t_id

3.7.2 Features to be tested: - Should update the t_id.

3.7.3 Pass/Fail criteria: - Should increase t_id by 1.

Test Number	Input/local Variable	Expected Output	Actual Output	Pass / Fail
3.7.2.1	No input	Should increase t_id by 1.	Increases t_id by 1.	Pass

3.8 Generate Bill

3.8.1 Generates bill

3.8.2 Features to be tested: - Should print the t_id, print all the goods ordered, their respective prices, finally evaluates and prints the total.

3.8.3 Pass/Fail criteria: - Should print the t_id, total and goods name, number and their price.

Test Number	Input/local Variable	Expected Output	Actual Output	Pass / Fail
3.8.2.1	No input	Should print the t_id, total and goods name, number and their price.	Prints the t_id, total and goods name, number and their price.	Pass

3.9 Delivery of goods

3.9.1 Delivery of goods

3.9.2 Features to be tested: - Should print “Goods will be delivered to you shortly”.

3.9.3 Pass/Fail criteria: - Should print “Goods will be delivered to you shortly”.

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Test Number	Input/local Variable	Expected Output	Actual Output	Pass / Fail
3.9.2.1	No input	Should print “Goods will be delivered to you shortly”.	Prints “Goods will be delivered to you shortly”.	Pass

3.10 Request Stock update

3.10.1 Requests stock update

3.10.2 Features to be tested: - This function is used after the delivery of goods is done to update the quantity of all goods.

3.10.3 Pass/Fail criteria: - Should update the quantity of all goods.

Test Number	Input/local Variable	Expected Output	Actual Output	Pass / Fail
3.10.2.1	No Input	Should update the quantity in stock register.	Updates the quantity in stock register.	Pass

3.11 Deliver goods

3.11.1 Deliver goods

3.11.2 Features to be tested: - After the goods are purchased from the supplier this function is called it should print “The requested goods are been obtained from the supplier”.

3.11.3 Pass/Fail criteria: - Function should print “The requested goods are been obtained from the supplier”.

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Test Number	Input/local Variable	Expected Output	Actual Output	Pass / Fail
3.11.2.1	No input	Should print “The requested goods are been obtained from the supplier”.	Prints “The requested goods are been obtained from the supplier”.	Pass

3.12 Receive Payment

3.12.1 Receives payment

3.12.2 Features to be tested: - Should receive the payment and update the store balance.

3.12.3 Pass/Fail criteria: - Should increase the store balance correctly.

Test Number	Input/local Variable	Expected Output	Actual Output	Pass / Fail
3.12.2.1	10	Should increase the store balance by 10.	Increases the store balance by 10.	Pass
3.12.2.2	20	Should increase the store balance by 20.	Increases the store balance by 20.	Pass
3.12.2.3	25	Should increase the store balance by 25.	Increases the store balance by 25.	Pass
3.12.2.4	i	Should increase the store balance by i.	Increases the store balance by i.	Pass

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3.13 Make Payment(Payment Portal)

3.13.1 Make payment

3.13.2 Features to be tested: - This function should make payment to the supplier and update the store balance correctly.

3.13.3 Pass/Fail criteria: - Updates store balance correctly.

Test Number	Input/local Variable	Expected Output	Actual Output	Pass / Fail
3.13.2.1	10	Should decrease the store balance by 10.	Decreases the store balance by 10.	Pass
3.13.2.2	20	Should decrease the store balance by 20.	Decreases the store balance by 20.	Pass
3.13.2.3	25	Should decrease the store balance by 25.	Decreases the store balance by 25.	Pass
3.13.2.4	i	Should decrease the store balance by i.	Decreases the store balance by i.	Pass

3.14 Evaluate Price

3.14.1 Evaluates price

3.14.2 Features to be tested: - This function evaluates the total price to be paid by the customer for the ordered goods.

3.14.3 Pass/Fail criteria: - Total should be evaluated correctly.

Test Number	Input/local Variable	Expected Output	Actual Output	Pass / Fail
3.14.2.1	No input	Should return the correct total.	Returns the correct total.	Pass

3.15 Add balance

3.15.1 Add balance

3.15.2 Features to be tested: - Updates the balance of the customer.

3.15.3 Pass/Fail criteria: - Should increase the balance correctly

Test Number	Input/local Variable	Expected Output	Actual Output	Pass / Fail
3.15.2.1	100	Should increase balance by 100.	Increases balance by 100.	Pass
3.15.2.2	250	Should increase balance by 250.	Increases balance by 250.	Pass
3.15.2.3	300	Should increase balance by 300.	Increases balance by 300.	Pass
3.15.2.4	k	Should increase balance by k.	Increases balance by k.	Pass

3.16 Make Payment(Customer)

3.16.1 Make payment

3.16.2 Features to be tested: - Should call evaluate price function and obtain the price to be paid. If it is less than the balance of the customer and the payment is done it should return 1, If payment is not done it should return 2. If the total is more than the available balance and customer adds balance, then it should return 3. If he don't want to update balance return 4.

3.16.3 Pass/Fail criteria: - Should return 1, 2, 3, 4 respectively in respective situations.

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Test Number	Input/local Variable	Expected Output	Actual Output	Pass / Fail
3.16.2.1	No input	If customer balance is sufficient and he makes payment Should return 1 and if he doesn't make payment should return 2 if balance less than total and customer wishes to add balance should return 3 if he don't want to add balance should return 4	If customer balance is sufficient and he makes payment It return's 1 and if he doesn't make payment it returns 2 if balance less than total and customer wishes to add balance it returns 3 if he don't want to add balance it returns 4	Pass

3.17 Update t_id

3.17.1 Update t_id

3.17.2 Features to be tested:- Should store the value of t_id.

3.17.3 Pass/Fail Criteria:- Should store the value of t_id correctly.

Test Number	Input/local Variable	Expected Output	Actual Output	Pass / Fail
3.17.2.1	T	Should store t in t_id.	stores t in t_id.	Pass

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3.18 show_balance(payment_portal)

3.18.1 show_balance(payment_portal)

3.18.2 Features to be tested:- Should show store balance.

3.18.3 Pass/Fail Criteria:- Should show store balance

Test Number	Input/local Variable	Expected Output	Actual Output	Pass / Fail
3.18.2.1	None	Should show store balance.	Shows store balance.	Pass

3.19 show_balance(customer)

3.19.1 show_balance(payment_portal)

3.19.2 Features to be tested:- Should show customer balance.

3.19.3 Pass/Fail Criteria:- Shows Customer balance.

Test Number	Input/local Variable	Expected Output	Actual Output	Pass / Fail
3.19.2.1	None	Should show customer balance	Shows customer banace	Pass

4.0 Details of System Testing

Step	Test Step	Intended Result	Actual Result	Pass/Fail
1.	Login as customer- > Enter valid details of goods to be purchased with all goods in stock - > Customer balance is more than the total to be paid-> Payment is done.	The bill with t_id should be printed and a message saying "Goods will be delivered to you shortly" should be displayed and finally an option to logout should be provided.	The bill with t_id is printed and a message saying "Goods will be delivered to you shortly" is displayed and finally an option to logout is provided.	Pass
2.	Login as customer- > Enter valid details of goods to be purchased with some goods out of stock-> Customer balance is more than the total to be paid-> Payment is done.	2 messages saying "The order for goods which are out of stock is made" and "The required goods are been obtained from the supplier" should be displayed. The bill with t_id should be displayed and a message saying "Goods will be delivered to you shortly" should be displayed and finally an option to logout should be provided	2 messages saying "The order for goods which are out of stock is made" and "The required goods are been obtained from the supplier" is displayed. The bill with t_id is displayed and a message saying "Goods will be delivered to you shortly" is displayed and finally an option to logout is provided	Pass
3.	Login as customer- > Enter valid details of goods to be purchased with	A message saying the balance required more for the payment	A message saying the balance required more	Pass

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	all goods in stock -> Customer balance is less than the total to be paid	to be completed should be displayed and an option to add balance should be given.	for the payment to be completed is displayed and an option to add balance is given.	
4.	Login as customer-> Enter valid details of goods to be purchased with all goods in stock -> Customer balance is less than the total to be paid -> Sufficient balance is added	It should proceed to the payment for the selected goods	The list of the goods is displayed and it gives you an option to select the goods.	Fail
5.	Login as customer-> Enter valid details of goods to be purchased with some goods out of stock-> Customer balance is less than the total to be paid	A message saying the balance required more for the payment to be completed should be displayed and an option to add balance should be given.	A message saying the balance required more for the payment to be completed is displayed and an option to add balance is given.	Pass
6.	Login as customer-> Enter valid details of goods to be purchased with some goods out of stock-> Customer balance is less than the total to be paid -> Sufficient balance is added	It should proceed to the payment for the selected goods	The list of the goods is displayed and it gives you an option to select the goods	Fail
7.	Login as customer-> Enter valid	Option asking to login or to quit	Option asking to login or to quit	Pass

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	details of goods to be purchased with all goods in stock - > Customer balance is more than the total to be paid-> Payment is done. -> t_id and bill are generated message regarding delivery of goods is displayed -> choose to logout	should be displayed.	is displayed.	
8.	Login as customer-> Enter valid details of goods to be purchased with some goods out of stock-> Customer balance is more than the total to be paid-> Payment is done -> The goods out of stock are been obtained from the supplier -> t_id and bill are generated message regarding delivery of goods is displayed -> choose to logout	Option asking to login or to quit should be displayed.	Option asking to login or to quit is displayed	Pass

5.0 Unresolved Test Instances

Test Case ID	Summary of Defect	Why not resolved