



University of Guyana 2021/2022
Faculty of Natural Sciences
Department of Computer Science

CSE2101 Software Engineering
Semester Project

Submission 4: System Testing

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Date of Submission: 09-12-22

Functional Requirement 1: Sending and Receiving Orders

Test case ID	TC_SVO_1 indicating sending and receiving order test case #1
Test priority (Low/Medium/High):	High
Test Title/Name:	Sending and receiving orders for stock issued by the client user to admin user
Test Summary/Description	This test will be conducted to ensure the functionality of the system is in order so as to have a smooth flow when sending and receiving orders issued by the system users.
Pre-conditions	The user must have the appropriate permissions to access the system, by providing the correct username and password.
Dependencies	<p>In order to have access to the database system and its features you must first log in.</p> <p>For users to view and send orders both must have access to their company's database server.</p> <p>Client users can only make an order if they can view the inventory list and the item is in stock and admin users can only view orders that were sent.</p>
Test Steps	<ol style="list-style-type: none">1. Publish database server2. Establish the connection between users and the database server3. Establish the distinction between an admin and a client user4. Ensure login for both admin and client users are successful and secure5. Test functionality of admin and user interface<ol style="list-style-type: none">a. Admin User<ol style="list-style-type: none">i. View ordersb. Client User<ol style="list-style-type: none">i. Send orders

	6. Test inner functions <ul style="list-style-type: none"> a. Admin user <ul style="list-style-type: none"> i. Test that notification of new orders is working ii. Test the functionality of the “view order” button iii. Ensure the date and time of an order are accurate as well as items and their amount b. Client user <ul style="list-style-type: none"> i. Test the functionality of the “send order” button ii. Test ability to view orders and search inventory list iii. Ensure that users are able to successfully and accurately enter items and amounts into an order list iv. Ensure that cross-checking of inventory numbers and order numbers is properly working so that orders can be fulfilled
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Test Data

Login

Username	Password
admin_user	*****
client_user	*****

Order

Date	Time	Items	Amount Inventory	in	Amount Ordered
22-11-2022	10:43 am	Pack of A4 Paper	37		10
		Stamp Pad	19		5
		Box of Pens	14		5

Expected Results	A page displaying the order, i.e., the date of the order, the items ordered and along with the option to send.
Post Condition	After providing valid login credentials admin users will be able to view the recently placed orders and also the exact time and date they were

	placed. While client users will be able to view item inventory and send orders.
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Functional Requirement 2: Order verification

Test case ID	TC_SVO_1 indicating sending and receiving order test case #1
Test priority (Low/Medium/High):	High
Test Title/Name:	Admin user verifying orders made by the client user
Test Summary/Description	The test is to ensure that the client user is successfully connected to the server and when orders are made the system makes the correct changes in numbers and the same is being displayed on the client user interface.
Pre-conditions	The user must be authorized to access the system and then enter their password to verify that the order has been made.
Dependencies	<p>In order to have access to the system and its features you must first log in.</p> <p>Only admin users can not make verifications. Verification is only applied to orders sent by client users.</p>
Test Steps	<ol style="list-style-type: none">1. Publish database server2. Establish the connection between users and the database server3. Establish the distinction between an admin and a client user4. Ensure login for admin user is successful and secure5. Test functionality of the “verify order” button6. Verify that the correct changes were made to the items in inventory7. Verify that changes in the number of inventory items are updated in the database and reflected on the client user interface
Test Data	

Login

Username	Password
admin_user	*****

Order and the changes made after verification

Items Ordered	In inventory	Amount Ordered	Amount remaining after Verification
Pack of A4 Paper	37	-10	27
Stamp Pad	19	-5	14
Box of Pens	14	-5	9

Expected Results	A dialogue box displaying a message saying that the order has been verified by the user.
Post Condition	Upon the verification that an order was fulfilled, inventory item numbers will be changed to reflect such to the client user.