

Test Case	Feature	Test Scenarios	Testing	Pass/Fail
TS01	1. Welcome Screen	<ol style="list-style-type: none"> 1. Verify that the welcome message is displayed on the screen. 2. Verify that ASCII art is correctly displayed around the welcome message. 	<ol style="list-style-type: none"> 1. Open the deployed application. 2. Ensure the welcome screen is displayed correctly including the ASCII art. 	PASS
TS02	2. Main Menu	<ol style="list-style-type: none"> 1. Verify that the main menu is displayed on the screen. 2. Verify that the options are displayed in the correct order. 3. Verify that the user is able to navigate to different functionalities from the main menu. 4. Ensure that invalid input does not break the program 	<ol style="list-style-type: none"> 1. Open the deployed application. 2. Ensure the main menu is displaying correctly. 3. Ensure the user can navigate to the different functionalities by entering the correct input for each functionality.. 4. Ensure that incorrect input is handled gracefully and does not break the program by providing invalid input. 5. After executing each functionality, verify that the user is redirected back to the main menu. 	PASS
TS03	3. C - Add Stock	<ol style="list-style-type: none"> 1. Verify that the user is able to access the 'Add Stock' functionality from the main menu. 2. Verify that the user is able to input the required information for adding stock: name, serial number, stock location, and location name. 3. Verify that each input is validated and the user is displayed with the appropriate warning message if the input is incorrect. 4. Verify that the user is presented with the three possible locations for the serial number entered. 5. Verify that if the serial number already exists, the user is displayed with a message in red and redirected to the main menu. 6. Verify that if the serial number is successfully added, the user is displayed with a message in green and redirected to the main menu. 	<ol style="list-style-type: none"> 1. Select "C" from the main menu. 2. Enter valid data for each input field (name, serial number, stock location, and location name). 3. Verify that the input is validated correctly and that the user is presented with three possible locations for the serial number entered. 4. Select a location for the serial number and verify that the stock is added to the system. Check the spreadsheet to ensure the stock is added to the correct spreadsheet in the correct format 5. Verify that a success message is displayed in green, with all of the details entered. 6. Enter a serial number that already exists in the system and verify that the user is presented with a warning message in red and redirected back to the main menu. 7. Repeat the steps above with invalid input to ensure it is handled as expected without breaking the program 	PASS
TS04	4. V - View Stock	<ol style="list-style-type: none"> 1. Verify that the user is able to access the 'View Stock' functionality from the main menu. 2. Verify that the user is able to view the inventory by location or all stock. 3. Verify that the data is displayed in a table format. 4. Verify that the user is able to navigate back to the main menu or view menu. 	<ol style="list-style-type: none"> 1. Select "V" from the main menu. 2. Verify that the user is presented with five options, to view all stock, to view by location, and back to main menu 3. Select each option and verify that the corresponding data is displayed in an easy to read table. 4. Verify that the user can go back to the view menu or back to the main menu by entering "B" and "M" 	PASS
TS05	5. S - Search and Edit	<ol style="list-style-type: none"> 1. Verify that the user is able to access the 'Search and Edit' functionality from the main menu. 2. Verify that the user is able to search the system by serial number. 3. Verify that if the serial number doesn't exist on the system, the user is displayed with a message in red and redirected to the main menu. 4. Verify that if the serial number exists on the system, the data is displayed in a table and the user is presented with a menu that will allow them to search again, edit, delete, or go back to the main menu. 5. Verify that the user is able to search again and edit the details successfully. 6. Verify that the user is able to delete the details successfully. 	<ol style="list-style-type: none"> 1. Select "S" from the main menu. 2. Enter a serial number that exists in the system and verify that the data is displayed in a table with options to search again, edit, delete or go back to the main menu. Verify that the search function works with both capital and lower case and trims empty spaces by providing various inputs. 3. Enter a serial number that does not exist in the system and verify that the user is presented with a message in red and is redirected back to main menu. 4. Select each option and verify that the corresponding functionality is executed correctly. 5. If searching again, verify that the user is presented with the search screen and asked for the serial number. 6. If editing, verify that the user is prompted for a new location and that the location is updated in the system. 7. If deleting, verify that the user is prompted for confirmation and that the serial number is permanently deleted from the system. 8. Verify that the user is redirected back to the main menu. 	PASS
TS06	6. E - Edit Stock Location	<ol style="list-style-type: none"> 1. Verify that the user is able to access the 'Edit Stock Location' functionality from the search and edit menu. 2. Verify that the user is able to input the required information for editing stock location: location and location name. 3. Verify that each input is validated and the user is displayed with the appropriate warning message if the input is incorrect. 4. Verify that if the location is successfully edited, the user is displayed with a message in green and redirected to the search and edit menu. 	<ol style="list-style-type: none"> 1. Select "S" from the main menu. 2. Enter a serial number that exists in the system and verify that the data is displayed in a table with options to search again, edit, delete or go back to the main menu. 2. Select "E" to edit the location and verify that the user is prompted for a new location and location name. 3. Enter valid data for each input field. 4. Verify that the input is validated correctly and that the location is updated in the system. Check the spreadsheet to ensure the data is added correctly. 5. Verify that a success message is displayed and that the user is presented with options to search again or go back to the main menu. 6. Repeat the steps with invalid input to ensure the app handles invalid input correctly. 	PASS
TS07	7. D - Delete	<ol style="list-style-type: none"> 1. Verify that the user is able to access the 'Delete' functionality from the search and edit menu. 2. Verify that the user is asked for confirmation before deleting the data. 3. Verify that if the user confirms the deletion, the data is deleted permanently. 4. Verify that if the user cancels the deletion, they are redirected back to the search and edit menu. 	<ol style="list-style-type: none"> 1. Select "S" from the main menu. 2. Enter a serial number that exists in the system and verify that the data is displayed in a table with options to search again, edit, delete or go back to the main menu. 1. Select "D" to delete the stock. 2. Verify that the user is prompted for confirmation. 3. Enter "Y" to confirm deletion and verify that the serial number is permanently deleted from the system by checking the spreadsheet and also by going back to the view stock option to ensure the serial number was removed. 4. Verify that a success message is displayed and that the user is redirected back to the main menu. 	PASS
TS08	8. I - Instructions	<ol style="list-style-type: none"> 1. Verify that the user is able to access the 'Instructions' functionality from the main menu. 2. Verify that the instructions are printed to the user with typewriter effect. 3. Verify that the main menu is displayed after the instructions are printed. 	<ol style="list-style-type: none"> 1. Select "I" from the main menu. 2. Verify that the instructions are displayed with a typewriter effect. 3. Verify that the user is redirected back to the main menu. 	PASS
TS09	9. Q - Quit	<ol style="list-style-type: none"> 1. Verify that the user is able to access the 'Quit' functionality 	<ol style="list-style-type: none"> 1. Select "Q" from the main menu. 2. Enter "Y" to confirm quitting and verify that the program exits. 3. Enter "N" to return to the main menu and verify that the user is redirected back to the main menu. 	PASS