

| Test Identifier | Test Summary | Test Description | Precondition | Test Steps | Expected Result | Actual Results | UI / API | Status | Tester | Defect ID |
|-----------------|---|---|--|---|--|----------------|----------|--------------|-----------------|-----------|
| UI/TC01 | Check the visibility of "Sell Plant" button for non-Admin user | Check that the "Sell Plant" button is visible to the non-Admin user | 1. The user need to log as a non-admin user. 2. The user has navigated to the sales page. page(/ui/sales) | 1. Observe the top section of the Category page | <ul style="list-style-type: none"> The "Sell Plant" button should not visible | | UI | Not Executed | Madusha 214224J | |
| UI/TC02 | Check the availability of the sales Delete action to non admin user. | Check that the Delete sales action is available to the non-Admin user | 1. The user need to log as a non-admin user. 2. The user has navigated to the sales page. page(/ui/sales). 3. The admin has added at least one sale to the system. | 1. Observe the sales table. | <ul style="list-style-type: none"> The Action column should not be displayed. The Delete action should not be displayed. | | UI | Not Executed | Madusha 214224J | |
| UI/TC03 | Verify "Sorting by Plant" in the Sales list for nin-admin user | Sales list page - support sorting by Plant column to non admin user | 1. The user need to log as a Non-Admin user. 2. The user has navigated to the sales page. page(/ui/sales) 3. The admin has added more than one sale to the system. | 1. The User clicks the 'Plant' column header | <ul style="list-style-type: none"> When the user clicks on the Plant column header, the list of sales should be sorted by plant name in ascending order. | | UI | Not Executed | Madusha 214224J | |
| UI/TC04 | Verify "Sorting by Quantity " in the Sales list | Sales list page - support sorting by Quantity column | 1. The user need to log as a Non-Admin user. 2. The user has navigated to the sales page. page(/ui/sales) 3. The admin has added more than one sale to the system. | 1. The User clicks the 'Quantity' column header | <ul style="list-style-type: none"> When the user clicks on the Quantity column header, the list of sales should be sorted by Quantity in ascending order. | | UI | Not Executed | Madusha 214224J | |
| UI/TC05 | Verify that a non-admin user sees a "No Sales Found" message when there are no sales records. | This UI test verifies that the system correctly informs the non-admin user when no sales records are available. | 1. A non-admin user account exists and is active. 2. The user is logged in. 4.The user has navigated to the sales page. page(/ui/sales) 3. There are no sales records in the system. | 1. Observe the sales table. | <ul style="list-style-type: none"> No sales records are displayed in the sales list. A clear message is shown: "No Sales Found". | | UI | Not Executed | Madusha 214224J | |
| UI/TC06 | Verify Pagination Functionality | Verify pagination functionality in sales list. | 1. The user need to log as a Non-Admin user. 2. The user has navigated to the sales page. page(/ui/sales) 3. The admin need to added more than 10 sales to the system. | 1. Scroll to bottom of list 2. Click "Next" or page number "2" | <ul style="list-style-type: none"> When clicking "Next" or page 2, the next 10 sales lists need to be displayed. | | UI | Not Executed | Madusha 214224J | |
| UI/TC07 | Check the visibility of "Sell Plant" button for non-Admin user | Check that the "Sell Plant" button is visible to the Admin user | 1. The user need to log as a Admin user. 2. The user has navigated to the sales page. page(/ui/sales) | 1. Observe the top section of the Category page | <ul style="list-style-type: none"> The "Sell Plant" should be visible. | | UI | Not Executed | Madusha 214224J | |

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| UI/TC08 | Check the availability of the sales Delete action for admin user. | Check that the Delete sales action is available to the Admin user | 1. The user need to log as an admin user. 2. The user has navigated to the sales page.(/ui/sales). 3. The admin has added at least one sale to the system. | 1. Observe the sales table. | <ul style="list-style-type: none"> The Action column should be displayed. The Delete action should be displayed. | | UI | Not Executed | Madusha 214224J | |
| UI/TC09 | Verify navigation to the sell plant page | Check that the Sell Plant button working correctly and navigate to Sell Plant page. | 1. The user need to log as an admin user. 2. The user has navigated to the sales page.(/ui/sales). | 1. 3. The admin need to click "Sell Plant" button. 2. Observe the page which naviagte. | <ul style="list-style-type: none"> Need to navigate to the page name Sell Plant which display the section to sell plants. | | UI | Not Executed | Madusha 214224J | |
| UI/TC10 | Verify that an error message pop-up is displayed when the entered sell quantity exceeds the available stock. | This test validates that the application correctly handles stock validation during a sell operation. When a user enters a sell quantity that exceeds the available inventory, the system should prevent the transaction and display an appropriate error message pop-up informing the user that the requested quantity is not available in stock. | 1. The user needs to log in as an admin user. 2. The user has navigated to the sall Plant page.(/ui/sales/new). | 1. The Admin selects a Plant (e.g., Mango, which has 15 units available in stock). 2. The Admin enters a sell quantity greater than the available stock (e.g., quantity > 15). 3. The admin needs to click the "Sell Plant" button. | <ul style="list-style-type: none"> needs to pop up an error message (e.g , Mango has only 15 items available in stock). | | UI | Not Executed | Madusha 214224J | |
| UI/TC11 | Verify that an error message pop-up is displayed when the entered sell quantity is less than 1 for admin user. | This test ensures that the system validates the minimum allowed sell quantity. If the admin enters a sell quantity less than 1 (e.g., 0 or a negative value), the system should block the transaction and display an appropriate error message pop-up. | 1. The user needs to log in as an admin user. 2. The user has navigated to the Sall Plant page.(/ui/sales/new). 3. Admin needs to select a plant which available in the stock. | 1. The Admin enters a sell quantity more than or equal to 1. 2. The admin needs to click the "Sell Plant" button. | <ul style="list-style-type: none"> needs to pop up an error message "Quantity must be greater than 0". | | UI | Not Executed | Madusha 214224J | |
| UI/TC12 | Verify that selecting a plant is mandatory before performing a sell operation for admin user. | This test ensures that the system enforces plant selection on the Sales page. If the admin attempts to perform a sell operation without selecting a plant, the system should prevent the action and display an appropriate error message. | 1. The user needs to log in as an admin user. 2. The user has navigated to the Sall Plant page.(/ui/sales/new). | 1. The Admin does not select any plant. 2. The Admin enters a valid sell quantity. 3. The Admin clicks the "Sell Plant" button. | <ul style="list-style-type: none"> An error message pop-up is displayed indicating that selecting a plant is required, and the sell operation is not completed. | | UI | Not Executed | Madusha 214224J | |
| UI/TC13 | Verify that the sell operation works correctly for admin user. | Test verifies that a valid sell operation is completed successfully, a new sale is added to the sales list with correct values, and the plant stock is updated accordingly for admin user | 1. The user needs to log in as an admin user. 2. The user has navigated to the Sall Plant page.(/ui/sales/new). | 1. The Admin needs to select any plant. 2. The Admin enters a valid sell quantity. 3. The Admin clicks the "Sell Plant" button. | <ul style="list-style-type: none"> A new sale is added to the sales list with correct details (plant name, quantity, date), and the plant stock is updated accordingly. | | UI | Not Executed | Madusha 214224J | |

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| UI/TC14 | Verify that the Plant dropdown list displays all available plants along with their current stock for an admin user. | This UI test verifies that the system correctly populates the Plant dropdown with available plants and displays their current stock to help the admin select a valid plant for selling. | 1. An admin user account exists and is active. 2. The admin user is logged in. 3. Plants with available stock exist in the system. 4. The user has navigated to the Sall Plant page. page(/ui/sales/new). | 1. Click on the Plant selection dropdown. | <ul style="list-style-type: none"> The Plant dropdown lists all available plants. Each plant entry displays the current stock quantity. | | UI | Not Executed | Madusha 214224J | |
| UI/TC15 | Verify that clicking the Cancel button navigates the user back to the sales list page. (For Admin User) | This UI test verifies that the Cancel button allows an admin user to exit the add sale process and return to the sales list. | 1. Log in as an Admin User. 2. Navigate to the Add Sale page. page(/ui/sales/new). | 1. Click on Cancel button. | <ul style="list-style-type: none"> The admin user is redirected to the Sales List page. No new sale record is created. | | UI | Not Executed | Madusha 214224J | |
| UI/TC16 | Verify that the navigation menu highlights the Sales page when a non-admin user navigates to it. | This UI test verifies that the Sales menu item is highlighted to indicate the active page. | 1. Log in as a Non-Admin User. | 1. Click on "sales" in navigation bar. 2. Observe the navigation menu. | <ul style="list-style-type: none"> The Sales menu item is highlighted as the active page. | | UI | Not Executed | Madusha 214224J | |
| UI/TC17 | Verify that correct Sales summary information is displayed on the Sales page for a non-admin user. | This UI test verifies that the Sales page displays summary information to non-admin users. | 1. Log in as a Non-Admin User. 2. User need to navigate to the dashboard page. | 1. Observe the dashboard page. | <ul style="list-style-type: none"> Correct Sales summary information is displayed. | | UI | Not Executed | Madusha 214224J | |
| API/TC18 | Verify that the admin can retrieve all sales | This API test verifies that an authenticated admin user can successfully retrieve the complete list of sales from the system. The API should return all existing sales records with correct details. | 1. The admin user account exists and is active. 2. The admin user is authenticated and has a valid access token. 3. At least one sale record exists in the system | 1. Send a GET request to the Get All Sales API endpoint with the access token (http://localhost:8080/api/sales). 2. Observe the API response | <ul style="list-style-type: none"> The API returns a successful response (e.g., HTTP 200). All existing sales records are returned with correct details | | API | Not Executed | Madusha 214224J | |
| API/TC19 | Verify that the admin can retrieve an available sale record by ID | This API test verifies that an authenticated admin user can successfully retrieve an existing sale record using a valid sale ID | 1. The admin user account exists and is active. 2. The admin user is authenticated and has a valid access token. 3. A sale record exists with a valid sale ID | 1. Send a GET request to the Get Sale by ID API endpoint with an existing sale ID (http://localhost:8080/api/sales/{id}). 2. Observe the API response. | <ul style="list-style-type: none"> The API returns HTTP 200 OK. The response contains the correct sale record matching the provided ID | | API | Not Executed | Madusha 214224J | |
| API/TC20 | Verify that the system handles a request for a non-existing sale record correctly. | This API test verifies that the system returns an appropriate error response when an authenticated admin user requests a sale record using a non-existing sale ID. | 1. The admin user account exists and is active. 2. The admin user is authenticated and has a valid access token. 3. No sale record exists for the provided sale ID. | 1. Send a GET request to the Get Sale by ID API endpoint with a non-existing sale ID (http://localhost:8080/api/sales/{id}). 2. Observe the API response. | <ul style="list-style-type: none"> The API returns an appropriate error response (e.g., HTTP 404 Not Found). A clear error message is returned indicating that the sale record was not found. | | API | Not Executed | Madusha 214224J | |

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| API/TC21 | Verify that the admin can delete a sale record | This API test verifies that an authenticated admin user can successfully delete an existing sale record using its sale ID | <ol style="list-style-type: none"> 1. The admin user account exists and is active. 2. The admin user is authenticated and has a valid access token. 3. A sale record exists with a valid sale ID. | <ol style="list-style-type: none"> 1. Send a DELETE request to the Delete Sale API endpoint with a valid sale ID ((http://localhost:8080/api/sales/{id})). 2. Observe the API response. | <ul style="list-style-type: none"> • The API returns a successful response (e.g., HTTP 200 or 204). • The sale record is removed from the system and cannot be retrieved afterward | | API | Not Executed | Madusha 214224J | |
| API/TC22 | Verify that the system returns an error when an admin attempts to delete a non-existing sale record. | This API test verifies that the system handles deletion requests for non-existing sale records correctly when performed by an authenticated admin user. | <ol style="list-style-type: none"> 1. The admin user account exists and is active. 2. The admin user is authenticated and has a valid access token. 3. No sale record exists for the provided sale ID. | <ol style="list-style-type: none"> 1. Send a DELETE request to the Delete Sale API endpoint with a non-existing sale ID (http://localhost:8080/api/sales/{id})). 2. Observe the API response. | <ul style="list-style-type: none"> • The API returns an appropriate error response (e.g., HTTP 404 Not Found). • A clear error message indicates that the sale record does not exist. | | API | Not Executed | Madusha 214224J | |
| API/TC23 | Verify that the system returns an error when the sell plant API is called without a request body | This API test verifies that the system prevents a sell operation when no data is provided in the request body. | <ol style="list-style-type: none"> 1. The admin user account exists and is active. 2. The admin user is authenticated and has a valid access token. | <ol style="list-style-type: none"> 1. Send a POST request to the Sell Plant API endpoint without any request body. 2. Observe the API response. | <ul style="list-style-type: none"> • Display Plant and Quantity are required. | | API | Not Executed | Madusha 214224J | |
| API/TC24 | Verify that the system returns an error when the plant is not provided. | This API test verifies that the system validates required fields and prevents selling when the plant field is missing. | <ol style="list-style-type: none"> 1. The admin user account exists and is active. 2. The admin user is authenticated and has a valid access token. | <ol style="list-style-type: none"> 1. Send a POST request to the Sell Plant API endpoint without the plant field in the request body and with a valid Quantity. 2. Observe the API response. | <ul style="list-style-type: none"> • Display an error message that required feild empty. | | API | Not Executed | Madusha 214224J | |
| API/TC25 | Verify that the system returns an error when the quantity is not provided. | This API test verifies that the system prevents selling when the quantity field is missing. | <ol style="list-style-type: none"> 1. The admin user account exists and is active. 2. The admin user is authenticated and has a valid access token. | <ol style="list-style-type: none"> 1. Send a POST request to the Sell Plant API endpoint without the quantity field and valid Plant id in the request body. 2. Observe the API response. | <ul style="list-style-type: none"> • Display an error message that required feild empty. | | API | Not Executed | Madusha 214224J | |
| API/TC26 | Verify that the system returns an error when quantity is less than 1. | This API test verifies that the system validates the quantity value and prevents selling with invalid quantities. | <ol style="list-style-type: none"> 1. The admin user account exists and is active. 2. The admin user is authenticated and has a valid access token. | <ol style="list-style-type: none"> 1. Send a POST request to the Sell Plant API endpoint with quantity 0 or a negative value and a valid plant id. 2. Observe the API response. | <ul style="list-style-type: none"> • Display a validation error message that "Quantity must be greater than 1". | | API | Not Executed | Madusha 214224J | |
| API/TC27 | Validate that an admin can successfully sell a plant when valid data (PlantID , Quantity) is provided. | This API test Validate that the system processes a valid sell request correctly, deducts the quantity from stock, and returns a success response with the sale details. | <ol style="list-style-type: none"> 1. The admin user account exists and is active. 2. The admin user is authenticated and has a valid access token. 3. The selected plant exists and has sufficient stock. | <ol style="list-style-type: none"> 1. Send a POST request to the Sell Plant API endpoint with a valid request body. http://localhost:8080/api/sales/plant/3?quantity=3 | <ul style="list-style-type: none"> • The API returns a successful response (e.g., HTTP 200 OK or 201 Created). • The response contains the sale details . • The plant stock is reduced by the sold quantity. | | API | Not Executed | Madusha 214224J | |

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| API/TC28 | Verify that the system prevents selling when the requested quantity is more than the available stock. | This API test verifies that the system validates stock levels and prevents a sell operation if the requested quantity exceeds the available stock. | <ol style="list-style-type: none"> 1. The admin user account exists and is active. 2. The admin user is authenticated and has a valid access token. 3. The selected plant exists with a known stock quantity (e.g., Mango, ID = 4, Quantity = 5). | <ol style="list-style-type: none"> 1. Send a POST request to the Sell Plant API endpoint with a quantity greater than the available stock. http://localhost:8080/api/sales/plant/4?quantity=6 | <ul style="list-style-type: none"> • The API returns a validation/error response (e.g., HTTP 400 Bad Request). • An error message indicates that the requested quantity exceeds available stock. • No sale is recorded, and the stock remains unchanged. | | API | Not Executed | Madusha 214224J | |
| API/TC29 | Verify that the system prevents selling when the plant ID provided is invalid | This API test verifies that the system validates the plant ID and prevents a sell operation if the plant does not exist. | <ol style="list-style-type: none"> 1. The admin user account exists and is active. 2. The admin user is authenticated and has a valid access token. 3. The plant ID provided does not exist in the system, and the input quantity is greater than 1. | <ol style="list-style-type: none"> 1. Send a POST request to the Sell Plant API endpoint with a valid quantity but an invalid plant ID http://localhost:8080/api/sales/plant/1000?quantity=6 | <ul style="list-style-type: none"> • The API returns an error response (e.g., HTTP 400 Bad Request or 404 Not Found). • An error message indicates that the plant does not exist. • No sale is recorded, and stock remains unchanged. | | API | Not Executed | Madusha 214224J | |
| API/TC30 | Verify that pagination works correctly when a non-admin user retrieves sales records. | This API test verifies that the system allows a non-admin user to retrieve sales records using pagination parameters and returns correct paginated results. | <ol style="list-style-type: none"> 1. A non-admin user account exists and is active. 2. The user is authenticated and has a valid access token. 3. Multiple sale records exist in the system (more than one page size). | <ol style="list-style-type: none"> 1. Send a GET request to the Get Sales API endpoint with pagination parameters (e.g., page=0&size=10) without sorting. http://localhost:8080/api/sales/page?page=0&size=10&sort= 2. Observe the API response. 3. Send another request with a different page number (e.g., page=1&size=5) without sorting. http://localhost:8080/api/sales/page?page=1&size=5&sort= 4. Compare the results between pages. | <ul style="list-style-type: none"> • The API returns HTTP 200 OK. • The response contains the correct number of records per page. • Pagination metadata (page number, page size, total records, total pages) is returned correctly. • Records from different pages do not overlap. | | API | Not Executed | Madusha 214224J | |
| API/TC31 | Verify that a non-admin user cannot perform a sell plant operation. | This API test verifies that the system enforces role-based access control by preventing non-admin users from selling plants. | <ol style="list-style-type: none"> 1. A non-admin user account exists and is active. 2. The user is authenticated and has a valid access token. 3. A plant exists with available stock. | <ol style="list-style-type: none"> 1. Send a POST request to the Sell Plant API endpoint with valid plant ID and quantity. 2. Observe the API response. | <ul style="list-style-type: none"> • The API returns an authorization error (e.g., HTTP 403 Forbidden or 401 Unauthorized). • The sell operation is not completed. • No sale record is created and stock remains unchanged. | | API | Not Executed | Madusha 214224J | |
| API/TC32 | Verify that a non-admin user cannot delete a sale record. | This API test verifies that the system enforces role-based access control by preventing non-admin users from deleting sale records. | <ol style="list-style-type: none"> 1. A non-admin user account exists and is active. 2. The non-admin user is authenticated and has a valid access token. 3. A sale record exists with a valid sale ID. | <ol style="list-style-type: none"> 1. Send a DELETE request to the Delete Sale API endpoint with a valid sale ID. http://localhost:8080/api/sales/17 2. Observe the API response. | <ul style="list-style-type: none"> • The API returns an authorization error (e.g., HTTP 403 Forbidden or 401 Unauthorized). • The sale record is not deleted. | | API | Not Executed | Madusha 214224J | |
| API/TC33 | Verify that a non-admin user can retrieve all sales records. | This API test verifies that the system allows non-admin users to retrieve sales records and returns the data successfully. | <ol style="list-style-type: none"> 1. A non-admin user account exists and is active. 2. The user is authenticated and has a valid access token. 3. At least one sale record exists in the system. | <ol style="list-style-type: none"> 1. Send a GET request to the Get All Sales API endpoint. http://localhost:8080/api/sales 2. Observe the API response. | <ul style="list-style-type: none"> • The API returns HTTP 200 OK. • All accessible sales records are returned in the response. • The response data is correctly structured. | | API | Not Executed | Madusha 214224J | |

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| API/TC34 | Verify that a non-admin user can retrieve a sale record by its ID. | This API test verifies that the system allows non-admin users to access individual sale records and returns the correct data when a valid sale ID is provided. | <ol style="list-style-type: none"> 1. A non-admin user account exists and is active. 2. The user is authenticated and has a valid access token. 3. A sale record exists with a valid sale ID. | <ol style="list-style-type: none"> 1. Send a GET request to the Get Sale by ID API endpoint with a valid sale ID. http://localhost:8080/api/sales/18 2. Observe the API response. | <ul style="list-style-type: none"> • The API returns HTTP 200 OK. • The response contains the sale record that matches the provided ID. • The response structure and data are correct. | | API | Not Executed | Madusha 214224J | |
| API/TC35 | Verify that the system returns an error when a non-admin user requests a sale record using an invalid sale ID. | This API test verifies that the system correctly handles invalid sale IDs by returning an appropriate error response to a non-admin user. | <ol style="list-style-type: none"> 1. A non-admin user account exists and is active. 2. The user is authenticated and has a valid access token. 3. No sale record exists for the provided sale ID. | <ol style="list-style-type: none"> 1. Send a GET request to the Get Sale by ID API endpoint with an invalid or non-existing sale ID. http://localhost:8080/api/sales/1000 2. Observe the API response. | <ul style="list-style-type: none"> • The API returns HTTP 404 Not Found (or 400 Bad Request if the ID format is invalid). • An error message indicates that the sale record was not found. • No data is returned. | | API | Not Executed | Madusha 214224J | |
| API/TC36 | Verify that a non-admin user can retrieve sales records with sorting by Plant Name, Quantity, Total Price, or Sold Date, along with pagination. | This API test verifies that the system correctly applies sorting and pagination parameters when a non-admin user retrieves sales records. Sorting should work by Plant Name, Quantity, Total Price, and Sold Date, while pagination returns the correct number of records per page. | <ol style="list-style-type: none"> 1. A non-admin user account exists and is active. 2. The user is authenticated and has a valid access token. 3. Multiple sales records exist (enough to test pagination). | <ol style="list-style-type: none"> 1. Send a GET request to the Get Sales API endpoint with query parameters: Sort by Plant Name (sort=plant) Pagination (page=0&size=10) http://localhost:8080/api/sales/page?page=0&size=5&sort=plantName 2. Verify the response order and number of records. Repeat for Quantity, Total Price, and Sold Date sorting. Test multiple pages (page=1, page=2) to verify pagination. | <ul style="list-style-type: none"> • The API returns HTTP 200 OK. • Sales records are correctly sorted according to the requested field and order. • Pagination metadata is correct (page number, page size, total records, total pages). • Data on different pages does not overlap. | | API | Not Executed | Madusha 214224J | |