

Test Identifier	Test Summery	Test Description	Precondition	Test Steps	Expected Result	Actual Results	UI / API	Status	Tester	Defect ID
UI/TC01	Verify Plant List Visibility	Check that the User can navigate to the plant list page and view the paginated list of plants	<ol style="list-style-type: none"> 1. The User is logged in as an Admin user. 2. The Admin user is on the Dashboard. 	<ol style="list-style-type: none"> 1. Click on the "Plants" link in the navigation menu or click on the "Manage Plants" button on the dashboard. 2. Navigate in to the plant section 	<ul style="list-style-type: none"> • The system redirects to the Plant List page. • The plant list table is fully visible with existing data populated. 		UI	Not Executed	Piyumi 214012H	
UI/TC02	Verify "Add Plant" button visibility	Check that the Admin must see the "Add Plant" control to initiate new plants entries.	<ol style="list-style-type: none"> 1. The user needs to log in as an admin user. 2. The admin user has navigated to the Plant List page (/ui/plants). 	<ol style="list-style-type: none"> 1. Observe the top section (header or toolbar) of the Plant List page. 2. Look for the "Add Plant" action button. 	<ul style="list-style-type: none"> • The "Add Plant" button is clearly visible. • The button is enabled and clickable. 		UI	Not Executed	Piyumi 214012H	
UI/TC03	Verify Adding a Valid Plant	ensures that when an Admin enters valid data for all mandatory fields (Name, Category, Price, Qty), the system saves the record	<ol style="list-style-type: none"> 1. The user needs to log in as an admin user. 2. The admin user is on the "Add Plant" screen (/ui/plants/add). 	<ol style="list-style-type: none"> 1. Enter a valid "Plant Name" (3-25 chars). 2. Select a valid Sub-Category. 3. Enter a valid Price (>0) and Quantity 4. Click the "Save" button. 	<ul style="list-style-type: none"> • A success message is displayed. • System redirects to the plant list. • The newly created plant appears in the table. 		UI	Not Executed	Piyumi 214012H	
UI/TC04	Verify Plant List Pagination	It validates that the Admin can navigate through multiple pages of plant records without data loss or UI errors	<ol style="list-style-type: none"> 1. The user needs to log in as an admin user. 2. The admin user is on the Plant List page. 3. More than 10 plants exist in the database. 	<ol style="list-style-type: none"> 1. Scroll to the bottom of the plant list. 2. Click the "Next" button or a specific page number 	<ul style="list-style-type: none"> • The plant list updates to display the next set of records. • The active page indicator changes to "2" or the next number. 		UI	Not Executed	Piyumi 214012H	
UI/TC05	Verify Filter by Plant Category as an admin	Validates the search and filtering capabilities of the Plant Management module	<ol style="list-style-type: none"> 1. The user needs to log in as an admin user. 2. The admin user is on the Plant List page (/ui/plants). 3. Existing plants with assigned categories are available in the database. 	<ol style="list-style-type: none"> 1. Locate the Category filter/dropdown menu above the plant list. 2. Select an existing category (e.g., "Medicinal" or "Indoor"). 3. Click the "Search" or "Filter" button. 	<ul style="list-style-type: none"> • The plant list table updates to display only the plants belonging to the selected category. • Plants from other categories are hidden from view. 		UI	Not Executed	Piyumi 214012H	
UI/TC06	Verify Plant Search by Name (Non-Admin)	Check searching for an existing plant by name and ensuring the searched list displays correctly	<ol style="list-style-type: none"> 1. The User is logged in as a Non-Admin user. 2. Plants exist in the plant list. 3. The user is on the Plant List page ("/ui/plants"). 	<ol style="list-style-type: none"> 1. Enter an existing Plant Name in the Search input field. 2. Click the "Search" button 	<ul style="list-style-type: none"> • The system displays the matching plants according to the search query results. 		UI	Not Executed	Piyumi 214012H	

UI/TC07	Verify Action Button Visibility (Non-Admin)	Check that Edit and Delete buttons are NOT visible in the table for non-admin users.	<ol style="list-style-type: none"> 1. The User is logged in as a Non-Admin user. 2. The user is on the Plant List page ("/ui/plants"). 3. Plants exist in the list. 	1. Observe the rows in the plant list table.	<ul style="list-style-type: none"> • Edit and Delete action buttons are NOT visible. 		UI	Not Executed	Piyumi 214012H	
UI/TC08	Verify "No Plants Found" Message	Check that the "No Plants found" message is displayed when a search by plant or filter by category yields no results.	<ol style="list-style-type: none"> 1. The User is logged in as an Admin or Non-Admin. 2. No plant records exist in the list matching the search name or filter category. 	<ol style="list-style-type: none"> 1. Input a plant name in the search field. 2. Select a category from the dropdown menu to filter. 	<ul style="list-style-type: none"> • The "No plants found" message is displayed. 		UI	Not Executed	Piyumi 214012H	
UI/TC09	Verify "Low Stock" Badge Visibility	Check the visibility of the Low Stock badge indicator when the plant stock quantity is less than 5.	<ol style="list-style-type: none"> 1. The User is logged in as a Non-Admin. 2. Plants exist in the list with a stock quantity of less than 5. 	1. Check the plant list visible to the user.	<ul style="list-style-type: none"> • The "Low" badge is displayed for the plants that have a quantity of less than 5. 		UI	Not Executed	Piyumi 214012H	
UI/TC10	Verify Navigation Menu Highlights Active Page	Check that the Plant field in the navigation menu is highlighted when the user is on the Plant page.	<ol style="list-style-type: none"> 1. The User is logged in as an Admin or Non-Admin. 2. The user is on the Dashboard ("/ui/dashboard"). 	1. Click the "Plants" section in the navigation menu.	<ul style="list-style-type: none"> • The "Plants" navigation menu item is highlighted. 		UI	Not Executed	Piyumi 214012H	
UI/TC11	Verify Plant Summary Card Visibility and Data	Validate that the User can see the Plant Summary card with accurate "Total" and "Low Stock" counts on the Dashboard.	<ol style="list-style-type: none"> 1. User is logged in. 2. User is on the Dashboard page. 3. Database has more than 1 total plant and low-stock plants (below 5) eg: total plants = 15 and low-stock plants = 2 	<ol style="list-style-type: none"> 1. Navigate to the Dashboard. 2. Locate the "Plants" summary card. 3. Observe the "Total" count. 4. Observe the "Low Stock" count. 	<ul style="list-style-type: none"> • The "Plants" card is visible. • "Total" displays 15. • "Low Stock" displays 2. • The "Manage Plants" button is visible and clickable. 		UI	Not Executed	Piyumi 214012H	
API/TC12	Verify Plant List Retrieval (Non-Admin User)	Check that the API returns the plant list for a standard user, allowing the UI to display the table.	<ol style="list-style-type: none"> 1. User has a valid Standard User (Non-Admin) JWT Token. 2. Endpoint: /api/plants/paged 	<ol style="list-style-type: none"> 1. Send GET request to /api/plants/paged?page=0&size=10 . 2. Header: Authorization: Bearer <User_Token> 	<ul style="list-style-type: none"> • Status Code: 200 OK 		API	Not Executed	Piyumi 214012H	
API/TC13	Verify Plant Details Retrieval by ID	Check that the API returns the specific details of a single plant when a valid plantId is provided.	<ol style="list-style-type: none"> 1. User has a valid JWT Token. 2. A plant with ID 1 exists in the database. 3. Endpoint: /api/plants/{id} 	<ol style="list-style-type: none"> 1. Send GET request to /api/plants/1 2. Header: Authorization: Bearer <User_Token> 	<ul style="list-style-type: none"> • Status Code: 200 OK • Response body contains valid details for Plant ID 1. 		API	Not Executed	Piyumi 214012H	

API/TC14	Verify Plant List Pagination (Non Admin User)	Validate that the API returns correct data subsets for pagination requests.	1.1. User has a valid Standard User (Non-Admin) JWT Token. 2. Database contains > 20 plants. 3. Endpoint: /api/plants/paged.	1. Send GET to /api/plants/paged?page=1&size=10 . 2. Send GET to /api/plants/paged?page=2&size=10 .	<ul style="list-style-type: none"> Status Code: 200 OK Response: The two responses contain unique sets of Plant IDs. No duplicates between pages. 		API	Not Executed	Piyumi 214012H	
API/TC15	Verify Search by Name by user as an Admin	Validate that the search endpoint filters results correctly by partial name	1. Authenticate as an Admin user and obtain a valid access token 2. The plant named "Cactus" exists. 3. Endpoint: /api/plants/paged	1. Send GET to /api/plants/paged?search=Cac.	<ul style="list-style-type: none"> Status Code: 200 OK Response: List contains "Cactus". Non-matching plants are excluded. 		API	Not Executed	Piyumi 214012H	
API/TC16	Verify Search "No Results" by user as an Admin	Check that API returns an empty list when no matches are found. (Relevant to "Verify No plants found message")	1. Authenticate as an Admin user and obtain a valid access token 2. . Endpoint: /api/plants/paged	1. Send GET request to /api/plants/paged?search=InvalidName.	<ul style="list-style-type: none"> Status Code: 200 OK Response: Body is [] (Empty List). 		API	Not Executed	Piyumi 214012H	
API/TC17	Verify Filter by Category (Non-Admin User)	Validate that the API returns only plants associated with the specific Category ID.	1. User account exists and is active. 2. Category "Medicinal" has ID 5. 3. Plants exist in Category 5.	1. Send GET to /api/plants?categoryId=5 (or /api/plants/category/5).	<ul style="list-style-type: none"> Status Code: 200 OK Response: Every plant object in the list has categoryId: 5. 		API	Not Executed	Piyumi 214012H	
API/TC18	Verify Filter by Non-Existent Category (Non-Admin User)	Validate that the API returns an appropriate error or empty state when a user requests plants for a Category ID that does not exist.	1. User account exists and is active. 2. Category ID 9999 does not exist in the database.	1. Send GET request to /api/plants/category/9999.	<ul style="list-style-type: none"> Status Code: 404 Not Found Response: JSON body contains an error message "Category not found". 		API	Not Executed	Piyumi 214012H	

API/TC19	Verify Edit Plant Details	Validate that an Admin can successfully update an existing plant's price or stock.	<ol style="list-style-type: none"> 1. Logged in as Admin. 2. Plant ID 101 exists 	<ol style="list-style-type: none"> 1. Send PUT to /api/plants/101. 2. Body: {"price": 99.99}. 	<ul style="list-style-type: none"> • Status Code: 200 OK • Response: Plant details retrieved subsequently show the new price 99.99 		API	Not Executed	Piyumi 214012H	
API/TC20	Verify Edit Plant Validation (Invalid Input)	Validate that the API prevents updating a plant when mandatory fields are missing or invalid	<ol style="list-style-type: none"> 1. Logged in as Admin. 2. Plant ID 101 exists. 	<ol style="list-style-type: none"> 1. Send PUT request to /api/plants/101. 2. Body: {"name": "", "price": -50}. 	<ul style="list-style-type: none"> • Status Code: 400 Bad Request • Response: JSON body contains validation errors "Price must be positive", "Name is required". 		API	Not Executed	Piyumi 214012H	
API/TC21	Verify Plant Summary Data Retrieval	Validate that the API returns the correct count of total plants and low-stock plants to populate the dashboard.	<ol style="list-style-type: none"> 1. User has a valid JWT Token. 2. Database state matches the UI test (15 Total, 2 Low Stock). 3. Endpoint: /api/plants/summary 	<ol style="list-style-type: none"> 1. Send GET request to /api/plants/summary. 2. Header: Authorization: Bearer <User_Token> 	<ul style="list-style-type: none"> • Status Code: 200 OK • Response Body: { "totalPlants": 15, "lowStockPlants": 2 }. 		API	Not Executed	Piyumi 214012H	