






Test Cases for Water Gardens Gallery

The following are critical path test cases for this project. Test cases are developed by Haryati Hassan for TGC Project 2 on React, Express and MongoDB technologies.

Test Case#	Test Scenario	Test Steps	Expected Results
1.	Show featured gardens and plants in the Highlights - Main Page of Website Default Filter: Latest Gardens and Plants added to the Gallery, Show top 3	<ol style="list-style-type: none">1. Main Landing Page for the Website:2. https://water-gardens.netlify.app/	<ol style="list-style-type: none">1. Show 3 most recently added Gardens with top 3 ratings and comments shown sorted by rating level in descending order2. Show 3 most recently added Plants sorted by likes in descending order
2.	Filter by other Highlights with a different Show N. E.g. User would like to see complex gardens from highly rated aquascapers and the difficult plants found in the gallery.	<ol style="list-style-type: none">1. Select dropdown "Other Highlights": "Advanced aquascapers and not-so-easy plants".2. Select dropdown "Display Items": "Show 5"	<ol style="list-style-type: none">1. Show gardens with aquascaper's information:<ul style="list-style-type: none">• complexity level = "intermediate" or "semi-professional" or "professional"• ratings = 4 or 5• plants = easy is Not Found2. Show plants with care level = medium or hard
3.	Show all Plants in the Gallery	<ol style="list-style-type: none">1. Select Tab "Plants"	<ol style="list-style-type: none">1. All Plants documents shown2. Plant Name and Appearance are shown3. Plant Smart Tags are also shown, if exist4. Buttons "Increase Likes" and "View Plant Details" are shown and enabled for each Plant document.
4.	Show all Gardens in the Gallery	<ol style="list-style-type: none">1. Select Tab "Gardens"	<ol style="list-style-type: none">1. All Gardens document shown2. Garden Name and Description are shown3. Garden's plants names are shown, if exist4. Garden's rating statistics (Average, Total, Minimum, Maximum rating levels) are shown, if exist5. Button "View Garden Details" are shown for each Garden document.

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5.	Search Plants that match a keyword with nested array queries using OR on multiple fields in documents	<ol style="list-style-type: none"> 1. Select Tab "Plants" 2. Key in "light" in Search field 3. Click on "Search" button 	<ol style="list-style-type: none"> 1. Shows Plants that match the search keyword with its Name, Appearance, Care, Lighting, Aquascaper's Name OR Email. 2. It will also find plants' Smart Tags that match
6.	Search Gardens that match a keyword with nested sub-documents queries using OR on multiple fields in documents	<ol style="list-style-type: none"> 1. Select Tab "Gardens" 2. Key in "repens" in Search field 3. Click on "Search" button 	<ol style="list-style-type: none"> 1. Shows Gardens that match the search keyword with its Name, Description, Complexity, Aquascaper's Name OR Email. 2. It will also match gardens' sub-documents: 3. Rating's Comments 4. Garden's Plant's Name
7.	Add a new Plant	<ol style="list-style-type: none"> 1. Select Tab "Add New Plant" 2. Key in Name, Appearance, Care, Lighting 3. Add photo URL of the plant 4. Click Save button 	<ol style="list-style-type: none"> 1. Image of URL is displayed when URL is typed correctly. 2. Return to "Plants" tab and new Plant is shown as first in the list.
8.	Add a new Garden	<ol style="list-style-type: none"> 1. Select Tab "Submit a Garden" 2. Key in Name, Description, Complexity, Weeks to Complete, Completion Date 3. Add photo URL of the plant 4. Click Save button 	<ol style="list-style-type: none"> 1. Image of URL is displayed when URL is typed correctly. 2. Return to "Gardens" tab and new Garden is shown as first in the list.
9.	View a Plant document in the listing	<ol style="list-style-type: none"> 1. Select Tab "Plants" 2. On a Plant shown, click on its "View Plant Details" button. 3. Click on "Go back" button to go back to "Plants" listing 	<ol style="list-style-type: none"> 1. "Plants" tab is hidden, "View Plant" tab is shown. 2. All Plant details are shown 3. Buttons shown: <ul style="list-style-type: none"> • "Increase Likes" • "Edit Plant" • "Delete Plant" • "Go back" 4. "Plants" listing is shown after "Go back" is clicked

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10.	View a Garden document in the listing	<ol style="list-style-type: none"> 1. Select Tab "Gardens" 2. On a Garden shown, click on its "View Garden Details" button. 3. Click on "Go back" button to go back to "Gardens" listing 	<ol style="list-style-type: none"> 1. "Gardens" tab is hidden, "View Garden" tab is shown. 2. All Gardens details are shown 3. Buttons shown: <ul style="list-style-type: none"> • "Increase Likes" • "Edit Garden" • "Delete Plant" • "Go back" 4. "Gardens" listing is shown after "Go back" is clicked
11.	Delete a Plant Pre-requisite: Plant is not found in other Garden(s). Search "money plant" to test delete or create a new plant to test delete	<ol style="list-style-type: none"> 1. Go to View Plant in Test Case #9 2. Click enabled "Delete Plant" button 3. Modal dialog box appears to confirm delete. Click on "Confirm Delete". 	<ol style="list-style-type: none"> 1. "Delete Plant" button is disabled if Plant exist in another Garden(s). 2. Modal box appears with selected Plant picture and name. Confirm and Cancel buttons are shown. 3. On Confirm delete, the Plant listing is shown with deleted Plant removed from list.
12.	Delete a Garden	<ol style="list-style-type: none"> 1. Go to View Garden in Test Case #10 2. Click "Delete Garden" button 3. Modal dialog box appears to confirm delete. Click on "Confirm Delete". 	<ol style="list-style-type: none"> 1. Modal box appears with selected Garden picture and name. Confirm and Cancel buttons are shown. 2. On Confirm delete, the Garden listing is shown with deleted Garden removed from list.
13.	Edit a Plant with optional Smart Tags (array) add/delete	<ol style="list-style-type: none"> 1. Go to View Plant in Test Case #9 2. Click "Edit Plant" button 3. Make changes to the existing details. 4. [optional] Enter a keyword to add a Smart Tag 5. [optional] Click on "  " button to remove an existing Smart Tag 6. Click on "Save Changes" 	<ol style="list-style-type: none"> 1. Tab changes to "Edit Plant" 2. Form with Plant information is shown in editable fields. 3. After making and saving changes, the "View Plant" tab is shown with the changes made. 4. If Smart Tag is added, the keyword is shown in the "Keywords" section. 5. If Smart Tag is deleted, the keyword is removed from the "Keywords" section. 6. If Cancel is clicked, no changes will be saved and "View Plant" tab is shown with original information.

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14.	Edit a Garden	<ol style="list-style-type: none"> 1. Go to View Garden in Test Case #10 2. Click “Edit Garden” button 3. Make changes to the existing details 4. Click on “Save Changes” 	<ol style="list-style-type: none"> 1. Tab changes to “Edit Garden” 2. Form with Garden information is shown in editable fields. 3. After making and saving changes, the “View Garden” tab is shown with the changes made. 4. If Cancel is clicked, no changes will be saved and “View Garden” tab is shown with original information.
15.	Add a Plant sub-document to a Garden from existing collection of Plants	<ol style="list-style-type: none"> 1. Go to Edit Garden in Test Case #14 2. Click on Dropdown for “Select Plant for Garden”. Select a Plant Name from the dropdown. 3. Click on “Add Plant to Garden” button. 4. Click “Save Changes” same as Test Case #14 for Edit Garden. 	<ol style="list-style-type: none"> 1. Dropdown list shows all Plants in the Gallery with its corresponding Care level. 2. On selected, Plant picture is shown above the button “Add Plant to Garden”. 3. On click of Add button above, Plant picture is shown in the section “Plants found in this Garden” above it. 4. On Save Changes, the Plants added will be shown in the “View Garden”.
16.	Remove a Plant sub-document from a Garden	<ol style="list-style-type: none"> 1. Go to Edit Garden in Test Case #14 with Plants already added to the Garden 2. Click on the Plant’s “” button next to its name 3. Click “Save Changes” same as Test Case #14 for Edit Garden 	<ol style="list-style-type: none"> 1. On click of “” button, the plant is removed from the “Plants found in the Garden” section. 2. On Save Changes, the deleted Plant is removed from the “View Garden”.
17.	Increase a Plant’s Like count	<ol style="list-style-type: none"> 1. Button “ Likes: N” is found in Plant listing in Test Case #3 and in View Plan in Test Case #9 2. Click on Button to increase Likes by 1. 	<ol style="list-style-type: none"> 1. On click of Like button, the “ Likes: N+1” is shown.

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18.	Add a Rating (🍃) sub-document of Garden	<ol style="list-style-type: none"> 1. Go to View Garden in Test Case #10 2. At the “Rate this Garden” section, select the 🍃 (1 to 5) for the rating level. 3. Key in the comments. 4. Click on “Submit your ratings...” button 	<ol style="list-style-type: none"> 1. On submit, the rating level and comments in shown in the “All Ratings and Comments” section on the same page. 2. Each rating will show the Edit (✎) and Delete (🗑) buttons next to it.
19.	Delete a Rating sub-document of Garden	<ol style="list-style-type: none"> 1. Go to View Garden in Test Case #10 2. At the “All Ratings and Comments” section, click on the 🗑 button of the selected Rating. 	<ol style="list-style-type: none"> 1. Selected rating is removed from the section.
20.	Edit a Rating sub-document of Garden	<ol style="list-style-type: none"> 1. Go to View Garden in Test Case #10. 2. At the “All Ratings and Comments” section, click on the ✎ button of the selected Rating. 3. Make the changes and click on “Update” button. 	<ol style="list-style-type: none"> 1. A modal box with the current rating is shown and editable. 2. On making changes and Update is clicked, the amended rating is reflected in the “All Ratings and Comments” section.

End of Test Cases