Sprint 2 Test Plan

This test plan represents part of the review process. For acceptance tests and review outcome of specific functionality, please kindly refer to the **Acceptance Criteria** under Sprint 2 Backlog.

For actions regarding different outcomes of testing process, please kindly refer to the *Quality Assurance Workflow*.

Testing is conducted as a group unit in Sprint 2.

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ⓘ ***For integration Testing:***

- Only edit the status of test cases related to the current user stories that are under review.

For System Testing:

- Review all previously executed test cases along with the current user stories that are under review.

Test Status - | PASSED | TESTING | FAILED |

Relevant Epic ID	Relevant User Story	Test Case ID	Test Case Description	Test Steps	Expected Result	Tester	Status
EP01	*US001*	TC01	Empty dashboard page when not selecting sensor	1. Login with valid user account 2. Do not select sensor in dashboard page, ensure the correct message is displayed	"*No Sensor Data.Please go to "Management" to check all your configurations.*" message should be seen along with a map on the right hand side.	GROUP 2	PASSED
		TC02	Show correct data on dashboard page when sensor is selected	1. Login with valid user account 2. Select a farm from dropdown. 3. Select a field from dropdown. 4. Select a sensor from dropdown. 5. Ensure the correct table of data displayed	*Time, Moisture, Temperature, Battery, Sensor ID* and *Alias* data should match the selected sensor.	GROUP 2	PASSED
	US002	TC03	Navigation bar should pass to correct pages	1. Login with valid user account 2. Click each button on the navigation bar at the bottom	Left most button should lead to dashboard page. Middle button should lead to Management page. Right most button should lead to User Profile page.	GROUP 2	PASSED

			TC04	Management page navigation should pass to correct pages	1. Login with valid user account 2. Click middle button on the navigation bar at the bottom 3. Click each button shown on the Management Page	'Gateway' button should lead to Gateway page. 'Farm' button should lead to Farm/Field page. 'Sensor' button should lead to Sensor page. 'Irrigation Zone' button should lead to Irrigation Zone page.	GROUP 2	PASSED
EP02	US006		TC05	Gateway should not be registered without an ID.	1. Login with valid user account 2. On Management Page, navigate to 'My Gateways' 3. Click 'Add Gateway' 4. Click 'Next' without entering Gateway ID	'Next' button should not respond without an Gateway ID input.	GROUP 1	PASSED
			TC06	Gateway cannot be registered without a location.	1. Login with valid user account 2. On Management Page, navigate to 'My Gateways' 3. Click 'Add Gateway' 4. Click 'Next' with a Gateway ID 5. Click 'Next' without choosing location on the map	'Next' button should not respond without an Gateway location indicated.	GROUP 1	PASSED
			TC07	Gateway can be registered with an ID and a location.	1. Login with valid user account 2. On Management Page, navigate to 'My Gateways' 3. Click 'Add Gateway' 4. Click 'Next' with a Gateway ID 5. Click 'Next' and add the Gateway location on map 6. Click 'Next' and then 'Submit'	After submission it will automatically return to 'My Gateways' page. The new gateway should be displayed with the correct Gateway ID and can be retrieved from relevant database.	GROUP 1	PASSED
	US007		TC08	Gateway deletion should show the user a double check pop-up window.	1. Login with valid user account 2. On Management Page, navigate to 'My Gateways' 3. Click a red cross mark button next to a gateway ID	A pop-up window asking for gateway deletion confirmation should appear.	GROUP 1	PASSED

		TC09	Gateway deletion should be aborted if choose 'Cancel' on the deletion pop-up window.	1. Login with valid user account 2. On Management Page, navigate to 'My Gateways' 3. Click a red cross mark button next to a gateway ID 4. Choose 'Cancel' on the pop-up window	Nothing happens on 'My Gateways' page as the deletion is aborted.	GROUP 1	PASSED
		TC10	Gateway should be deleted if choose 'Delete' on the deletion pop-up window.	1. Login with valid user account 2. On Management Page, navigate to 'My Gateways' 3. Click a red cross mark button next to a gateway ID 4. Choose 'Delete' on the pop-up window	The corresponding gateway should disappear from 'My Gateways' page and removed from relevant database.	GROUP 1	PASSED
	US008	TC11	Farm and fields cannot be registered without a farm name and field name.	1. Login with valid user account 2. On Management Page, navigate to 'My Farms & Fields' 3. Click 'Add New Field' 4. Click 'Next' without entering Farm Name and Field Name	'Next' button should not respond without the two names.	GROUP 1	PASSED
		TC12	Farm and fields cannot be registered without a location.	1. Login with valid user account 2. On Management Page, navigate to 'My Farms & Fields' 3. Click 'Add New Field' 4. Click 'Next' after entering Farm Name and Field Name 5. Click 'Next' without choosing location on the map	'Next' button should not respond without the field location.	GROUP 1	PASSED

		TC13	New Farm & Fields can be registered if names and location are indicated.	1. Login with valid user account 2. On Management Page, navigate to 'My Farms & Fields' 3. Click 'Add New Field' 4. Click 'Next' after entering Farm Name and Field Name 5. Click 'Next' and add the field location on map 6. Click 'Next' and then 'Submit'	After submission it will automatically return to 'My Farms & Fields' page. The new field should be displayed with the correct Field Name can be retrieved from relevant database. If new farm was created, after changing the view to that farm, the new filed should appear on the page with the correct Field Name .	GROUP 1	PASSED
US009	TC14	Field deletion should show the user a double check pop-up window.	1. Login with valid user account 2. On Management Page, navigate to 'My Farms & Fields' 3. Click a red cross mark button next to a field name	A pop-up window asking for field deletion confirmation should appear.	GROUP 1	PASSED
		TC15	Farm deletion should show the user a double check pop-up window.	1. Login with valid user account 2. On Management Page, navigate to 'My Farms & Fields' 3. Click 'Delete' next to the current farm name	A pop-up window asking for farm deletion confirmation should appear.	GROUP 1	PASSED
		TC16	Field/Farm deletion should be aborted if choose 'Cancel' on the deletion pop-up window.	1. Login with valid user account 2. On Management Page, navigate to 'My Farms & Fields' 3. Click a red cross mark button next to a field name or. Click 'Delete' next to the current farm name 4. Choose 'Cancel' on the pop-up window	Nothing happens on 'My Farms & Fields' page as the deletion is aborted.	GROUP 1	PASSED

		TC17	Field/Farm should be deleted if choose 'Delete' on the deletion pop-up window.	1. Login with valid user account 2. On Management Page, navigate to 'My Farms & Fields' 3. Click a red cross mark button next to a field name or. Click 'Delete' next to the current farm name 4. Choose 'Delete' on the pop-up window	The corresponding gateway should disappear from 'My Farms & Fields' page and removed from relevant database.	GROUP 1	PASSED
EP03	US012	TC18	Version 2 sensors cannot be registered without a sensor ID.	1. Login with valid user account 2. On Management Page, navigate to 'My Sensors' 3. Click 'Add New Field' 4. Click 'Next' without entering Sensor ID	'Next' button should not respond without a sensor ID.	GROUP 1	PASSED
		TC19	Version 2 sensors cannot be registered without a location indicated.	1. Login with valid user account 2. On Management Page, navigate to 'My Sensors' 3. Click 'Add New Sensor' 4. Click 'Next' without entering a location on map	'Next' button should not respond without a sensor location indicated.	GROUP 1	PASSED
		TC20	Version 2 sensors can be registered with ID and location indicated.	1. Login with valid user account 2. On Management Page, navigate to 'My Sensors' 3. Click 'Add New Sensor' 4. Click 'Next' after entering SensorID 5. Click 'Next' and add the sensor location on map 6. Click 'Next' and then 'Submit'	After submission it will automatically return to 'My Sensors' page. The new Version 2 sensor should be displayed with the correct Sensor ID in the current field's sensor table and can be retrieved from relevant database.	GROUP 1	PASSED

		US013	TC21	Version 2 sensors information and location can be viewed edited.	1. Login with valid user account 2. On Management Page, navigate to 'My Sensors' 3. Click the green pencil button 4. Change any of the following: Alias, Latitude, Longitude, Sleeping Time (hr) 5. Click 'Next', change the location of sensor on map by clicking another position 6. Click 'Next' and then 'Submit'	After submission it will automatically return to 'My Sensors' page. The edited Version 2 sensor should be displayed with the correct Sensor ID in the current field's sensor table, by clicking the green pencil button of that sensor again, the new information should be updated and can be retrieved from relevant database.	GROUP 1	PASSED
EP05	US021		TC22	After logging out, the user should be directed to login page.	1. Login with valid user account 2. Click log-out from the top right corner dropdown	Log-out should directly lead to the log-in page.	GROUP 2	PASSED
	US022		TC23	Invalid password or username should log the user into the app.	1. Login with invalid user account 2. Click 'Login'	A warning message indicating incorrect input should be shown.	GROUP 2	PASSED
			TC24	Correct username and password should log the user in.	1. Login with valid user account 2. Click 'Login'	After logging in the user should be directed to 'Dashboard' page.	GROUP 2	PASSED