Test Case No.	Test Case Description	Test Steps	Expected Results
For Tablet / Desktop			
1	Loading of website	1. Go to the URL: https://sg-museums.netlify.app/	1a. Website should load without crashing.
			1b. Leaflet map, search console and map button elements should be rendered properly on website.
2A	About us > Open	Pre-requisite(s): None 1. On the search console (top-left corner of website),	An offcanvas displaying information about Museums@SG should slide in from the left side of the website.
		click on the Museums@SG logo button	
2B	About us > Close	Pre-requisite(s): Test Step 2A	Offcanvas should slide out of the left side of the website and disappear from
		Click on anywhere outside the offcanvas or click on the 'X' button at the top-right corner of the offcanvas	view.
3A	Search bar > Museum query (Empty query without prior searches)	Pre-requisite(s): No prior search queries or interaction with map markers.	1a. Console drawer should expand (if in the collapsed state).
		1a. On the search console, click on the input field of the search bar.1b. Hit the 'Enter' key on the keyboard or click on the search button (magnifying glass icon)	1b. The 'Museum', 'Weather', and 'Nearby' tabs should display the message "There is no result to show."
3B	Search bar > Museum query (Matching search query)	Pre-requisite(s): None	1a. Console drawer should expand (if in the collapsed state).
		1a. On the search console, click on the input field of the search bar.1b. Enter 'National Museum of Singapore' or any	1b. The 'Museum' tab should display the museum information.
		museum names in Singapore in the search input field (case-insensitive). 1c. Hit the 'Enter' key on the keyboard or click on the search button (magnifying glass icon)	1c. The 'Weather' tab should display the current weather and 2-hour weather forecast of the museum's location.
			1d. The 'Nearby' tab should display a form allowing users to select the type of amenities and search radius.
			2. Map should zoom to the museum marker and a popup should appear above the marker.
3C	Search bar > Museum query (Not- matching search query)	Pre-requisite(s): None	1a. Console drawer should expand (if in the collapsed state).
		 1a. On the search console, click on the input field of the search bar. 1b. Enter 'something' or any random text that is not a museum name in Singapore in the search input field (case-insensitive). 1c. Hit the 'Enter' key on the keyboard or click on the search button (magnifying glass icon) 	"No matches for <search query=""> found.", where <search query=""> is the input entered by the user.</search></search>
3D	Search bar > Museum query (Empty query with prior searches)	Pre-requisite(s): Test step 3B or 3C 1a. On the search console, click on the input field of the search bar.	Console drawer should expand (if in the collapsed state). The 'Museum', 'Weather', and
		1b. Clear the search input field. 1c. Hit the 'Enter' key on the keyboard or click on the search button (magnifying glass icon)	'Nearby' tabs should still display the previous search result (No change in the display of the 3 tabs).

4A	Autocomplete suggestion	Pre-requisite(s): None	1a. An autocomplete suggestion
7/7	ratesomplete suggestion	The require (s), result	dropdown list should appear, displaying
		1a. On the search console, click on the input field of	a list of museum names based on the
		the search bar.	input typed.
		1b. Start typing 'National Museum of Singapore' or	(Note: If the string typed in do not match
		any substring that appears in a museum name in	any substrings of the museum names in
		Singapore in the search input field (case-insensitive).	the dataset, the autocomplete
			suggestion list will not appear)
4B	Autocomplete suggestion > Autofill	Pre-requisite(s): Test step 4A	1. The search input field would be
	feature		automatically filled with the selected
		1. Click on any museum name in the autocomplete	museum name.
_		suggestion dropdown list.	
5	Nearby amenities feature	Pre-requisite(s): Test step 3B	Case 1: No amenities found within search radius
		1a. If the console drawer is in the collapsed state,	
		click on the toggle console drawer button (indicated	1a. A message saying 'There are no
		by a down arrow) to expand the console drawer.	results found.' should be displayed at the
		1b. Click on the 'Nearby' tab in the console drawer.	bottom of the form.
		1c. Fill in the form by selecting any number of	1b. On the map, a green circle with the
		amenities to display and the search radius.	current searched museum result as the
			center should be rendered on the map (if
			search radius is selected).
			1c. There should be no amenities
			markers being rendered on the map.
			Case 2: Amenities found within search
			radius
			1a. There should be no message saying
			'There are no results found.' at the
			bottom of the form.
			1b. On the map, a green circle with the
			current searched museum result as the
			center should be rendered on the map (if
			search radius is selected).
			1c. Amenities markers matching the selected category in the form should be
			rendered within the green circle.
6A	Navigation	Pre-requisite(s): None	1a. The console drawer should expand (if
			it is in the collapsed state).
1		1. On the search console, click on the navigation	1b. The navigation form should be
		button (indicated by the blue directions icon).	displayed in the console drawer.
6B	Navigation > No start point and/or	Pre-requisite(s): Test step 6A	1a. An error message stating 'Please
	destination selected		select a start point.' should be displayed
		1. Click on 'Get Route' button.	below the input field for start point if no
			start point was selected.
			1b. An error message stating 'Please
			select a destination.' should be displayed
1			below the input field for destination if no
			destination was selected.
1			

6C	Navigation > Set start point or	Method 1: Via marker	1a. The console drawer should expand (if
БС	destination	Pre-requisite(s): None	it is in the collapsed state).
		1a. Click on any marker on the map.1b. On the marker popup, click on either 'Set as start point' or 'Set as destination' button.	1b. The navigation form should be displayed in the console drawer.
		Method 2: Via 'Museum' tab Pre-requisite(s): Test step 3B	1c. The location name should appear under either 'Start' or 'Destination' input field of the navigation form depending on selection in test step 6C.
		1a. In the console drawer, click on the 'Museum' tab. 1b. Click on either 'Set as start point' or 'Set as destination' button.	
6D	Navigation > Handling same start point and destination	Pre-requisite(s): Test step 6C	An error message stating 'Please select a destination that is different from start
		On either the marker popup or 'Museum' tab, click on 'Set as start point' button.	
		2a. If using Method 2 (via the 'Museum' tab), click on the search button to get to the 'Museum' tab.2b. Alternatively, click on the search field input and hit 'Enter' on the keyboard.	
		3. Click on 'Set as destination' button. 4. Click on 'Get Route' button of the navigation form.	
6E	Navigation > Displaying polyline route	Pre-requisite(s): Test step 6C	A polyline route should be rendered on the map.
	Toute	On either the marker popup or 'Museum' tab, click on 'Set as start point'.	· •
		2a. On the search bar, search for another museum (Eg. "Former Ford Factory") that is different from the current selection. (Note: You may make use of the autocomplete suggestion feature for this step)	and generate the polyline route)
		2b. Alternatively, click on another marker on the map which will trigger a marker popup.	
		3. Similar to step 1, click on the 'Set as destination' on either the marker popup or 'Museum' tab.	
		4. Select any transport mode radio button in the navigation form.	
		5. Click on 'Get Route' button in the navigation form.	
7	Geolocation feature	Pre-requisite(s): None	A marker should be rendered on the map where the user's current location is
		On the bottom-right corner of the website, click on the geolocate button (indicated by a target icon).	
8A	Help Form > Open	Pre-requisite(s): None	A help form should slide in from the bottom.
		1. On the bottom-right corner of the website, click on the help button (indicated by a question mark icon).	

8B	Help Form > Invalid inputs	Pre-requisite(s): Test step 8A	1a. An error message stating 'Only alphabets, apostrophes (') and dashes(-)
		Without entering any inputs, click on 'Submit' button.	are allowed' should be displayed below the name input field.
			1b. An error message stating 'Invalid email address' shoud be displayed below the email input field.
			1c. An error message stating 'Please enter description' should be displayed below the description input field.
8C	Help Form > Valid inputs	Pre-requisite(s): Test step 8A or 8B 1. Key in all the fields in the help form and click on	There should not be any error messages being displayed if the input fields are of the correct format.
		'Submit' button.	
8D	Help Form > Close	Pre-requisite(s): Test step 8A or 8B or 8C	1. The help form should close.
		Click on the 'X' button located on the top-right corner of the help form.	
For Mobile	Note: Test steps are the same as that for tablets and desktop. (Please note that instead of 'Museum', 'Weather', and 'Nearby' tabs, the texts of the tabs are replaced by their respective icons)		