# Test Suite

Login Page

* Verify that username field is required
  1. Leave username blank.
  2. Click Login button.
  3. Result: Message shows that username is required.
* Verify that password field is required
  1. Fill in username.
  2. Leave password blank.
  3. Click Login button.
  4. Result: Message shows that password is required.
* Verify that password field shows dots and does not show text
  1. Type into password field.
  2. Result: Input does not show text and shows password dots.
* Verify that login button logs user into the web app
  1. Fill correct username and password
  2. Click Login button
  3. Result: username is correctly displayed top right

Overview Page

* Top Navigation Bar
  1. Map Select
  2. User Menu
     + Verify that logout button logs user out of the web app
       1. Hover top right menu
       2. Click Logout
       3. Result: user is redirected to login page
     + Verify that going back into history after logout lands at login page
       1. Hover top right menu
       2. Click Logout
       3. Click browser Back button
       4. Result: user cannot go back to Overview page
* Side Navigation Bar
  1. Map Page
  2. Agents Page
  3. Manage Page
     + Site Overview
     + Maps
       1. Create Map
       2. Listed Maps
          - Map Editor

View Mode

Edit Mode

Select

Node

Verify creating a Node

Click Node button in sidebar.

Click on the map.

Click Save changes.

Result: node is created where user has clicked.

Verify deleting a Node

Click Select button in sidebar.

Click a Node.

Click <Del> key.

Click Save changes.

Refresh page.

Result: Node is deleted.

Edge

Verify creating an Edge

Create two nodes, refer to steps in creating a Node.

Click on Edge button in sidebar.

Click on the first node.

Result: Edge is created from Node to cursor.

Click on the second Node.

Result: Edge is created from first to second Node.

Verify deleting an Edge

Create two Nodes.

Create an Edge between two Nodes.

Click Select button in sidebar.

Click on the Edge.

Click <Del> key.

Click Save changes.

Refresh page.

Result: Edge is deleted between the two Nodes.

Verify deleting a Node deletes all its Edges

Create 3 Nodes.

Add Edges to connect all three Nodes together, in a triangle.

Select a Node.

Click <Del> key.

Click Save changes.

Refresh page.

Result: All Edges that were connected to the deleted Node are also deleted.

Spot

Region

Verify creating a Region by clicking on the map

Click on Region button in sidebar.

Click on map.

Click Save changes.

Result: A Region of fixed size is created.

Verify creating a Region by dragging on the map

Click on Region button in sidebar.

Drag cursor on map from one point to another.

Click Save changes.

Result: A region of dragged size is created.

Verify deleting a Region

Create a Region and save changes.

Select the new Region.

Click <Del> key.

Click Save changes.

Refresh page.

Result: Region is deleted.

Verify moving a Region with the mouse

Create a Region and save changes.

Click and hold on the Region and move it to a new location.

Click Save changes.

Refresh page.

Result: The region should be shown where the user moved it.

Verify moving a Region by editing the XY position

Create a region and save changes.

Select the region and check the properties menu.

Change the X and Y positions to a new value.

Click Submit.

Click Save changes.

Refresh the page.

Result: The region should be shown where the user specified it.

# Defects that I found

1. The region is still moveable and editable in non-edit mode.
2. Object properties can be changed in non-edit mode, should probably be read-only.
3. If two regions are moved one after another, they erratically change positions to unexpected locations.
4. Creating a region automatically switches back to Select mode, which is observed inconsistent behaviour when creating the other things.
5. Nodes cannot be moved by dragging them.
6. Edges are created without a defined width.
7. Edges when saved are given a default width of 0, however, it appears that there is validation that says width should be >= 1.
8. Regions can be saved without defining the required “Name” field.
   1. Regions are autoassigned a name if saved without one. Perhaps the error message that prompts the user to provide a name is misleading.
9. When creating a node, it should not allow the creation of a node if the cursor is already hovering over another Node.
10. Regions when moved on the map do not appear to save unless you explicitly click Submit in the properties. This is confusing for users since moving a region around should implicitly save the position where the user wants it.
11. Region ID appears to be editable when it probably shouldn’t be.
12. Creating a region by just clicking on the map creates a region of 1x1 size, but it doesn’t appear to be editable since it disappears if you try to click it.
13. There is no obvious way to delete an object.