SPM User Acceptance Test Script

Version 4.3.0 Longview

# Purpose

To test each new upgrade to the Statewide Planning Map, and ensure that base functionality is not compromised.

# Process

Test the application on our GitHub test page (<http://txdot.github.io/javascript/StatewidePlanningMap/StatewidePlanningMap.html>) .

Once the code passes UAT, the application will be updated on our internal server (<http://crossroads/org/tpp/StatewideMapping/>).

After testing again in the internal version, the application will be updated on the external server (<http://www.txdot.gov/apps/statewide_mapping/StatewidePlanningMap.html>).

# Section 1: General Application Test

This test section must be completed each time upgrades are made in order to ensure that all functionality works properly prior to launching. After the base functionality has been tested, the enhancements will be tested in the next section.

* Open the application
  + Expected Results:
    - Application opens without errors. Basemap shows in map pane and is zoomed to the extent of the state (more or less – dependent upon your screen resolution).
    - All tabs and table of contents load properly.
    - The zoom control and search buttons appear in the upper left corner of the map pane.
    - A scale bar, zoom level description, and latitude & longitude appear in the lower left corner.
* Pan and zoom around the map pane. Zoom in to the fullest extent (z20).
  + Expected Results:
    - Map is responsive to panning and zooming
    - Basemap displays properly at each zoom level
* Click to open each of the **Base Maps** located near the top of the table of contents pane. This is an enhancement: Google Imagery and Esri’s light gray basemap have been added.
  + Expected Results:
    - Each basemap loads properly
    - Zoom and pan around each basemap
* Click the **Measure** tab. Select a unit of measure. Single click on the map, then double click at another location to measure the distance. Toggle between the units of measure. Click Clear.
  + Expected Results:
    - Each unit of measure is selectable
    - You are able to draw a line measuring a distance.
    - The unit of measure changes as you select each one.
    - The clear button clears the red measure line.
* Click the **Query** tab. Enter a query and click Run Query. Click the highlighted layer.
  + Expected Results:
    - The map will zoom to the selected route.
    - A pop-up window for Roadway Inventory will pop up after the highlighted route is selected. The pop up will contain attributes for the selected route.
* Click the **Sketch Tool** tab. Choose from the dropdown options. Click in the map pane to draw a route. Click Calculate Cost. Click Clear.
  + Expected Results:
    - The route you have drawn will show in the map pane in red.
    - The Project Length and Estimated Construction Cost details will appear below the Calculate Cost button.
    - The red line will disappear after you click the Clear button.
* Click the **Legend** tab. Go back to the Maps tab and select an overlay, then return to the Legend tab. Repeat for several overlays randomly.
  + Expected Results:
    - The Legend is updated for each overlay.
    - The Legend shows the title or description of the layer and the symbology below it.
* Click the **About** tab.
  + Expected Results:
    - A disclaimer appears with several paragraphs of text
* Click to expand the **Search** widget, located in the upper left-hand corner of the map pane.
  + Expected Results:
    - Search widget expands, text prompt appears in grey-out font in the text box, and a drop-down carrot appears on the left side.
  + Type a “1255” in the search box.
    - Expected Results:
      * You see type-ahead results in the search box, split into Control Section, CSJ, and On-System Highway sections.
  + Type a city, district, highway, or control section number in the search box.
    - Expected Results:
      * You see type-ahead results as you type in the search box.
      * The map pane zooms to the selected feature.
* Select 5 overlays randomly (not just the first 5). Click an asset for each of the selected overlays.
  + Expected Results:
    - Some overlays have labels on the map.
    - A pop-up window appears.
    - The pop-up window contains data for the fields displayed.
    - The data displayed in the pop-up window is not cryptic coded values.

# Section 2: Enhancements Test

This section covers new enhancements made to the application, which must be fully tested prior to launching.

* **2 Layers on at once & Legend update**
  + Click to turn on 2 overlays.
    - Do both layers turn on?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
  + Go to the Legend tab.
    - Both overlays legend items appear.
  + Click a third overlay to turn it on.
    - A popup warns you that only 2 overlays are allowed at once.
  + Close the popup, and click one of the current overlays to turn it off.
  + Click the remaining overlay to turn it off.
    - All overlays turn off.
  + Note: the last layer you turn on will draw on top, thus you can control which layers appears on top.
    - Toggle two layers on and off to see how the last appears on the top.
      * The last layer always shows up on top.
    - Check the Legend for each new layer you turn on.
      * The Legend is updated properly.
  + Comment on any issues you found: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* **Expanded Zoom Levels**
  + With the TxDOT basemap selected, zoom in all the way to the maximum extent.
    - The TxDOT basemap now goes to zoom level 16 (previously 15).
    - After z16, the basemap automatically switches to Google Imagery.
  + Zoom out past z16 (e.g. z15, z14, etc.).
    - The basemap automatically switches back to the TxDOT basemap.
  + Zoom all the way out to the lowest extent.
    - The map will zoom all the way out to the extent of the world.
  + Comment on any issues you found:

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* **Roadway Inventory Overlay**
  + Click to turn on the Roadway Inventory overly.
  + Click on a segment in the map to open the pop up window
    - Are all fields populated?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
    - What attribute shows up between Number of Lanes and Surface Width in the popup?\_\_\_\_\_\_\_\_\_\_\_\_\_\_
  + Comment on any issues you found: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* **Cemetery Overlay**
  + Click to turn on the Cemetery overlay.
  + Select a point in the map to open the pop up window
    - What attributes show up in the pop up window?\_\_\_\_\_\_\_\_\_\_\_\_
  + Comment on any issues you found: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* **Control Section Popup**
  + Click to turn on the Control Section overlay.
  + What is the last attribute in the popup?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
  + Comment on any issues you found: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* **About Tab**
  + Click on the About Tab?
    - What is the version name?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
  + Click on the version name.
    - What is the API version number the application was upgraded to?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
  + Comment on any issues you found: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* **Maintenance Office Popup**
  + Click to turn on the Control Section overlay.
    - What is the last attribute in the popup?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
  + Comment on any issues you found: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Please provide additional feedback on any aspect of the application. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**