System Test Report

Cartograms 4 All

Sprint 1

1. As a user, I want to generate cartograms so I can better visualize data
   a. Cartogram is generated from a dataset
2. As a user, I want to upload my own datasets so I can get my own visualizations
   a. Upload new .csv files using the upload icon on the top left
   b. Application updates field selection based off the csv file uploaded
   c. Cartogram reacts to the data accordingly (i.e. regions that should be big are big, and regions that should be small are small)
   d. Visual provides the correct information from the different fields of the dataset

Sprint 2

1. As a user, I want to be able to download an image of my cartogram so that I can share it on other platforms
   a. Go to Share
   b. Click on either PNG or SVG
   c. It will download the picture of the current canvas as the desired file format
   d. File downloaded is able to be viewed in a viewer that supports that format (mostly important for SVG downloads)
2. As a user, I want to be able to share my cartogram so users can learn from it
   a. Go to share
   b. Click on either Twitter and Email
   c. Verify that the user Session ID is in window that popped up
3. As a user, I want to be able to edit the shared cartogram and reproduce a new one
   a. Generate cartogram
   b. Click on Save/Load tab
   c. Click Save button
   d. Go to Share tab
   e. Copy Session ID
   f. Open up different browser
   g. Click on Save/Load tab
   h. Paste Session ID
   i. Click Load
   j. Verify the same cartogram in there

4. As a user, I want to switch my view of the world so I can show data for congressional districts, counties, states, countries
   a. Click on Add New Map button
   b. Verify that the countries will generate a new map
   c. Verify that the drop down menu display different columns
   d. Click on one of the columns to generate a cartogram

Sprint 3

1. As a user, I want a more intuitive user interface, so that I don't need documentation to use all features of the app
   a. Navigate to the main page
   b. Click on different buttons
   c. Verify that the tooltips show up
2. As a user, when I upload my dataset and TopoJSON, cartograms should be generated without further setup
   a. Click upload icon
   b. Select dataset in csv format
   c. Select TopoJSON region to use
   d. Select desired data column
   e. Cartogram generates of the chosen region, and matches the dataset that was uploaded

For checking cartogram correctness, we rely on knowing what data is huge in our uploaded dataset, and make sure that those regions are the larger pieces of the map. We rely off the cartogram algorithm we were given, and assume it is correct for the purposes of our application.