European Energy Data

Test Id	1				
Test name	European Energy Data Test				
Description	Test the funcionality of the European Energy Data Extension				
Test Status	Complete				
Test case #	**Scenario**	**Steps**	**Expected Output**	**Actual output**	**Pass /Fail**
1.1	**Does the extension open up properly without errors**	1. Select the extension from the menu	The title of the extension, a drop down select box, an empty rectangle and 10 checkboxes	As expected	Pass
1.2	**When the checkboxes are checked does the bar fill as expected?**	1. Check the "solid fossil fuels" checkbox 2. Repeat with each checkbox, until all the checkboxes are checked	Each checkbox checked fills the rectangle by the percentage of energy created	As expected	Pass
1.3	**When the checkboxes are unchecked, does the bar empty as expected?**	1. Uncheck the "solid fossil fuels" checkbox 2. Repeat with each checkbox, until all the checkboxes are unchecked	Each checkbox unchecked empties the rectangle by the percentage of energy created	As expected	Pass
1.4	**When the country or region changes, do the values in the bar change to reflect the new country?**	1. Check several of the checkboxes at random 2. Pick a different country from the drop down select box	The values filled in the rectangle change to reflect the energy data of the new country selected	As expected	Pass
1.5	**When mouse is hovering over different parts of the rectangle do popups show, and if so do they display the correct information?**	1. Uncheck all boxes except one 2. hover the mouse over it's segment in the rectangle 3. Check the data matches the popup. 4. Repeat using multiple checked boxes	A popup appears with the appropriate data on show	As expected	Pass

Test Id	2
Test name	Create a Pie Chart Test
Description	Test the funcionality of the Create a Pie Chart extension
Test Status	Complete

Test case #	Scenario	Steps	Expected Output	Actual output	Pass /Fail
2.1	Does the extension open up properly without errors	1. Select the extension from the menu	A title text box loads, and two sets of form boxes for the pie chart load. There should be two buttons, one that shows add value and one the shows download pie chart.	As expected	Pass
2.2	When a title, and labels are added and values and colours are selected, these show in the pie chart.	1. Fill in a title for the pie chart 2. fill out the label box and change the default value and colour boxes	The pie chart should show the title, labels and colours selected, as well as calculate the values as a percent of the chart	As expected	Pass
2.3	Can the user add values and fill out more details?	1. Click add value and fill out additional value information 2. Repeat multiple times	Each new value added adds a piece to the pie chart	The user can add values beyond the number of usable colour to the point where the chart fails to make sense. Look into limiting the number of values that the user can add. In addition, when the values field is empty, the pie chart totally disappears.	Fail
2.4	Does the Download pie chart button work as expected?	1. Create a usable pie chart 2. Press the download pie chart button	a jpg should be downloaded showing the pie chart in it's entirity	As with 2.3, when too many values are added they extend beyond the window that p5 is taking the jpg from	Fail
2.5	When mouse is hovering over different parts of the Pie Chart do popups show, and if so do they display the correct information?	1. Create a usable pie chart 2. Move the mouse over different segments	A popup appears with the appropriate data on show	As expected	Pass

European Unemployment

Test Id	3				
Test name	European Unemployment Test				
Description	Test the funcionality of the European Unemployment extension				
Test Status	Complete				
Test case #	**Scenario**	**Steps**	**Expected Output**	**Actual output**	**Pass /Fail**
3.1	**Does the extension open up properly without errors?**	1. Select the extension from the menu	A map centered on Europe should appear	As expected	Pass
3.2	**Is the map interactive?**	1. Use the mouse pointer to drag the map around	The map should move when dragged	As expected	Pass
3.3	**Does the appropriate data show when the mouse hovers over countries in Europe?**	1. Move the mouse over different countries	A popup should appear displaying the data from that country	As expected	Pass
3.4	**Does the data change when the date slider is moved?**	1. Change the date slider 2. hover the mouse over several countries 3. Repeat 5 times	Each time the slider is changed the data in the popups should change to reflect this	As expected	Pass

World Population

Test Id	4				
Test name	World Population Test				
Description	Test the funcionality of the World Population Extension				
Test Status	Complete				
Test case #	Scenario	Steps	Expected Output	Actual output	Pass /Fail
4.1	Does the extension open up properly without errors	1. Select the extension from the menu	The title of the extension, a slider and a play button should appear over the top of a bar chart	As expected	Pass
4.2	Does the play/pause button work properly	1. Press the play/pause button 2. repeat 10 times	Each time the play button is pressed, the years change, and the graph animates, as well as the button chaning to a pause button. When the pause button is pressed the opposite happens.	As expected	Pass
4.3	Can the uses move the slider manually?	1. Move the year slider to random year 2. repeat 5 times	Each time the slider is moved the chart should change to show the data on the reflected year.	As expected	Pass

Test Id	5
Test name	USA Box Office Test
Description	Test the funcionality of the USA Box Office Extension
Test Status	Complete

Test case #	Scenario	Steps	Expected Output	Actual output	Pass /Fail
5.1	**Does the extension open up properly without errors**	1. Select the extension from the menu	A steam chart for the whole year should appear, along with a title and two sliders	As expected	Pass
5.2	**When mouse is hovering over different parts of the chart do popups show, and if so do they display the correct information?**	1. Move the mouse curser over a specific part of the chart 2. repeat 10 times	A popup appears with the appropriate data on show, as the mouse curser moves the dates and movie names and revenue should change to reflects where	As expected	Pass
5.3	**When I move the start slider, does the start day change and the y axis labels scale appropriatly?**	1. Move the Start Day slider 2. repeat 5 times	The chart should flatten out as less data is shown, and the y axis should scale so that it remains relavant	As expected	Pass
5.4	**When I move the end slider, does the end day change and the y axis labels scale appropriatly?**	1. Move the End Day slider 2. repeat 5 times	The chart should flatten out as less data is shown, and the y axis should scale so that it remains relavant	The y axis does not scale properly, so the month labels fail to match up. The more I slide the slider from it's initial position the more it fails to match	Fail

Car Emissions

Test Id	6				
Test name	Car Emissions Test				
Description	Test the funcionality of the Car Emissions Extension				
Test Status	Complete				
Test case #	Scenario	Steps	Expected Output	Actual output	Pass /Fail
6.1	**Does the extension open up properly without errors**	1. Select the extension from the menu	The title of the extension, three labeled drop down select boxes, a button, and an empty radar chart are shown	As expected	Pass
6.2	**Does the car model drop down box change it's values as I change the car make?**	1. Change the car make select box. 2. Check the car model box has changed values 3. Repeat 5 times	Each time I change the car make box, the car model drop down should show the models of that particular car make	As expected	Pass
6.3	**Does the year released drop down box change it's values as I change the car model?**	1. Change the car model select box. 2. Check the year released box has changed values 3. Repeat 5 times	Each time I change the car model box, the year released drop down should show the years of that particular car model	As expected	Pass
6.4	**Can I add and remove car rader charts to a maximum of 5 to the chart?**	1. Try to add 6 different radar charts 2. Try to remove all the charts on show 3. Add and remove random numbers of charts	When more than 5 charts are added an alert should flash up and the sixth chart should nt be added. As each chart is added or removed, their rader outline should be added and removed from the chart	As expected	Pass
6.5	**When mouse is hovering over different parts cars, is their chart highlighted and is a popup showing that cars specific information shown?**	1. Add 5 cars to the chart 2. Hover over each of the car information and view results	The appropriate rader chart outline should be highlighted and an appropriate popup should appear displaying the appropriate information	As expected	Pass