

Testing
SlugSense WebApp
WebSwag
7/23/17

Graph:

Function: Display data on the graph upon loading; clicking day button; clicking week button.

Function: Display data on the graph upon clicking each category.

Equivalence Class	Input	Expected Output	Tested by
EC _{negative data}	-3	Graph will not display this data point.	T.W.
EC _{temperature data}	10	Y-axis' label unit should be C. Both x and y axis data range should change accordingly.	T.W.
EC _{humidity/moisture/sunlight data}	20	Y-axis' label unit should be in %, both x and y axis data ranges should change accordingly	T.W.
EC _{user changes webpage size}	Web page size changes	Graph should change size accordingly	T.W.
EC _{user clicks different nodes}	Different node	Graph should change to	T.W.

	selected	selected node's day data	
EC _{user load webpage}	Load web page	Entire graph should show without user scrolling down	T.W.
EC _{Week button}	Week button being clicked.	X-axis display should change to seven days. The data is the average of each day.	D.A.R
EC _{Day button}	Day button being clicked.	The x-axis should change to show the data for each hour.	D.A.R
EC _{Legend Functionality}	Different legend fields being clicked.	The graph should have the proper color coordinated display. The color should coordinate with the legend color. The y-axis labeling should change between percentage and temperature.	D.A.R

Data:

Function: Make calls to backend API to get data for certain days and weeks.

Equivalence Class	Input	Expected Output	Tested by
EC _{date with null data}	"4/19/2017"	Graph displays no data, y-axis disappears, 400 responses from API calls	H.B.B.
EC _{date with no data}	"1/20/2017"	Graph displays no data, y-axis disappears, 400 responses from API calls	H.B.B.
EC _{date with data}	"4/30/2017"	Graph displays data, no errors	H.B.B.

Login(Design):

Function: The login page can decide what to do depending on localStorage; if the user has already logged in, it should re-direct the browser, and display other things based on the user not having the API token (or not being able to store one)

Equivalence Class	Input	Expected Output	Tested by
EC _{YesAPIToken,} EC _{YesLocalStorage}	API token in local storage	Redirect to webapp	Z.D.H.

EC _{noLocalStorage}	No localStorage	#errMsg says update browser	Z.D.H.
EC _{noAPIToken}	No API token	Redirects work with valid input	Z.D.H.
EC _{Consistent Display}	Resize the page to make it small.	Grid layout should stay the same. Even when screen size shrinks down.	D.A.R
EC _{Initial Display}	Launch the webpage.	All divs and images should be formatted correctly. Everything should be readable and in full view.	D.A.R

Notifications:

Recent are scraped from the server based on per-node environmental limits, and immediately available environmental data. If we can make requests to the server, we should be able to scrape them based on the format we are assured the API responds with. If an API request fails, the user is informed as such.

Equivalence Class	Input	Expected Output	Tested by
EC _{no internet, valid token}	[no internet access]	[{ type: 'error', value: true, content: 'Failure to POST to database API.' }]	ZDH
EC _{internet, invalid token}	[faulty API token]	[{ type: 'error', value: true, content: 'Failure to POST to database API.' }]	ZDH
EC _{internet, valid API token}	[valid API token]	True notifications	ZDH

Login Function:

Returns API token and a list of all nodes as well as username, save token to local storage which allows us to make API request per user based on the data required by the webapp.

Equivalence Class	Input: Username	Input: Password	Expected Output	Tested by
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EC _{UID,Invalid} and EC _{PW, Valid}	“fakeid”	“sustainability”	“Invalid login”	D.B.R
EC _{UID,Valid} and EC _{PW, Invalid}	“sustainability ”	“fakepw”	“Invalid login”	D.B.R.
EC _{UID, Valid} and EC _{pw, Valid}	“sustainability ”	“sustainability”	Redirected to webapp	D.B.R.
EC _{UID, Invalid} and EC _{PW, Invalid}	“fakeid”	“fakepw”	“Invalid login”	D.B.R.
EC _{UID, invalid/Valid} and EC _{PW, None}	“fakeid”/ “sustainability ”	“(empty string)”	“Fill out all fields”	D.A.R
EC _{UID, None} and EC _{PW, Invalid/Valid}	“(empty string)”	“fakeid”/ “sustainability”	“Fill out all fields”	D.B.R.

Equivalence Class	Input:	Expected Output:	Tested By:
EC _{Logout}	Click the logout icon in the top right	The user should be taken back to the login page.	D.A.R

	corner of the dashboard.		
EC _{Social media links}	Click the Instagram or Facebook icon.	Takes the user to the facebook or instagram login page.	D.A.R
EC _{About page}	Click the SlugSense logo.	Takes you to the “about” page, which has info on the members of the project.	D.A.R