Homework 05 - Twitter, AJAX

Read this entire homework description once through before proceeding.

Required Reading

- Diving into the Twitter API
  - http://net.tutsplus.com/tutorials/other/diving-into-the-twitter-api/
- Twitter API Documentation
  - https://dev.twitter.com/docs
- Using the Twitter Search API
  - https://dev.twitter.com/docs/using-search

Other Pre-Requisites

We have done these items in class:

- You created a Twitter account (can be private)
- You signed into the dev.twitter.com website
- You created an application for use with Cloud9

You Will Create:

- An updated form that can search the Twitter API for tweets with some new criteria, and show favorites and retweets as badges
- Create a 5 minute video that:
  - Shows the new functionality
  - Shows and explains the HTML code you added for each item that was added in the form
  - Shows and explains the JS code you added to handle the new form elements in the AJAX request to Twitter

Task

In class, we started with a mini application on Cloud9 that uses your Twitter dev account and dev application to search for tweets. We'd like to extend this functionality a little bit further.

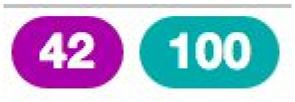
Please start with the code attached in a ZIP file to this homework.

Add the following to the form:

- A dropdown to choose the language (lang)
    - include an "Any" option [value=""], as the first option
    - include "English" [value="en"] as the second option
    - include just a handful of a few others
    - (see "lang" in documentation for the Twitter api's "search/tweets" function)
- A dropdown to choose the result type (result_type):
    - include an "Any" option [value=""], as the first option
    - include the three other options
    - (see "result_type" in documentation for the Twitter api's "search/tweets" function)

Change the way the results look so that:

- The number of retweets shows up in a badge (make it purple)
    - (see the "example request" in documentation for the Twitter api's "search/tweets" function)
- The number of favorites shows up in a second badge (make it blue-green)
    - *(This SHOULD be in the example result, but it is not! Check out the "Tweets" documentation (*https://dev.twitter.com/docs/platform-objects/tweets*, which is also linked from the "Response Object" on the "search/tweets" page itself), or do a console.log(tweet) to figure it out.)*
- Here's an example of what the badges themselves might look like:

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- Note: Look at the Bootstrap's CSS documentation under Badges. Even though the examples only show one badge, you can have as many as you want. You can set the color by using the "background-color: #???;" attribute to set the CSS style background color to the color you want. Also don't forget how to add multiple classes to a single tag!

- Add the users' profile picture before their screen name in the tweet display layout.

In your JavaScript, the $.ajax call to Twitter should include the two parameters that correspond with the new form elements:

- Include the value the user chose in the language (lang) dropdown in the data parameters
- Include the value the user chose in the result type (result_type) dropdown in the data parameters

Twitter API Information

Twitter API itself:

See the Twitter API documentation at: https://dev.twitter.com/docs/api/1.1

Twitter API function "search/tweets":

See the Twitter API documentation at: https://dev.twitter.com/docs/api/1.1/get/search/tweets

- Pay attention to the Parameters
- Pay attention to the Example Request

Handing in Your Work

- Upload your video to YouTube or screencast.com (You may make the video "public" or "unlisted", but it cannot be set to “private”.)
- In the Sakai project text box:
    - Submit the link to your video.
    - Submit the link to your workspace.
    - Submit the link to the page you created.
- Note: DO NOT make changes to your assignment after the deadline. If you want to continue experimenting, you should make a copy of your assignment in a different folder.

Grading

- 6% of total grade
- This assignment is to be completed individually. Work and ideas should not be shared with others.
- Grade will be reduced by 50% for any assignment submitted without a video or for a video that is not viewable.
- Grade will be reduced by 50% for workspace not shared correctly.
- Grade will be reduced by 10% for assignment not submitted correctly.

- Grade will be reduced by 10% for video not properly uploaded.