

Amy Wolcott to mail

Mar 13

Hey Kevin,

I had a chance to connect with Travis McWilliam regarding your google hangout and he felt it went well. The next step in the process is a coding challenge. We'd like you to write some JavaScript code for this. The details of the problem are provided below. You are able to ask questions related to architecture, JavaScript practices, and requirement clarification if needed.

If you could upload your code to the collector (below) no later than Monday the 20th that is ideal. If you need more time please let me know.

We'd like you to create a web application that allows a user to compose a Tweet and suggests Twitter handles based on possible screenname matches. The lookup should support autocompletion (i.e. as characters are typed screenname suggestions are automatically provided). The Tweet composed does not need to be delivered to Twitter's API.

The expected UX for this lookup is:

1. Screenname suggestions should be shown after a user types the @ character followed by any alphanumeric character(s), without any spaces (e.g. " Hello @sprout" would trigger a set of suggestions for sprout whereas "Hello @spr out" would trigger a set of suggestions for spr).
2. Show suggestions when there are at least two characters in the possible screenname, not including the @ (e.g. @ab would trigger a set of suggestions but @a would not)
3. The suggestions should show up as a list in the application and should display the following fields:
 - a. Name
 - b. Screenname
 - c. User profile image
4. Bonus Items:
 - a. Support navigating through the suggested results with the keyboard arrow keys and selection of the highlighted suggestion
 - b. Handle the case where the entered text contains multiple screennames
 - c. Use ES6 features (arrow functions, default parameters)
 - d. Use React to render the suggestions
 - e. Add client side caching of the Twitter search results

Don't worry about writing perfect HTML; we're more interested in the JavaScript side of the house. If you're not comfortable with a MV* framework, aim to make the code modular and easily readable.

You can use the code in [twitter-screenname-server.zip](#) to make username lookup requests against Twitter's API. The instructions for setting up the username lookup application can be found in the README file.

Here are some additional notes:

- Write production ready JavaScript code
- Consider performance related items, such as render time and limiting requests to the API
- Don't worry about the case where there are no matches
- Using 3rd party libraries are fine - just let us know what assumptions you've made when using any external dependency.
- The UI for the experience doesn't have to be complex. If you want inspiration, feel free to checkout the experience that Sprout Social provides when composing a new Tweet or see [this screenshot](#) (attached below).
- Please provide detailed instructions to run your application in a README.md file.
- This doesn't have to work perfectly for all browsers, Chrome is fine.
- When you're happy with your work, you can submit an archived/compressed file via our [Homework Assignment Collector Form](#). Also, please send us an email when you've submitted your solution.

