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Hi Shannon,

I hope you enjoyed the chat with Daniel this afternoon, feedback was positive on his end. The next step in the process is the code solution which I attached below. As I mentioned on our first call, it's completely untimed and done at your own pace. Our engineers are scoring the puzzle in three main areas; the UI, the underlying technology, and lastly creativity. If you have any other questions, let me know! Talk to you soon.

**Viv Labs Sr. Frontend Engineer Coding Puzzle**

Please only select **ONE** puzzle, it typically should take about a week. We are looking forward to seeing what you come up with!

v1.3.0

As part of the engineering interview process, Viv Labs likes to give a short coding assignment. It is a chance to show your design and coding style — without the pressure and inconvenience of writing code on a whiteboard! — and give us something to discuss in an on-site interview.

We’re interested in your skills at using APIs, data sets, and services to build useful and functional user experiences.  For these puzzles, you could do most of the code server-side (for example, a Java, Node.js, or Python back-end generating HTML), or client-side (all browser, or even Mobile iOS or Android).

We must be able to run your solution to evaluate it.  Package your solution with all source code and instructions to run it. Include a readme file describing your design decisions, things you would have worked on if you had more time, and anything else you’d like us to know.

Finally, we ask that you not share or post these questions or your solutions (such as to public Github repos or with your friends).

**Puzzle #1: Restaurant Search**

Create a web interface that helps you find a local restaurant based on cuisine type and location using either the Yelp API or Yahoo’s YQL API for local search.

You can add any specific features you think are useful, but it should

* Allow searching by location
* Allow selection type of food (e.g. Pizza, Italian, Tapas, etc.)
* Allow sorting by rating or distance

Format the results as a list however you prefer. We are more interested in the content and usability of the interface than in polished visuals. For example, what are good ways to enter the location? What cuisine types should be used? Can users modify their sort criteria?

Yahoo has an API test console here: [https://developer.yahoo.com/ yql/console/](http://t.sidekickopen51.com/e1t/c/5/f18dQhb0S7lC8dDMPbW2n0x6l2B9nMJW7t5XYg2BWlCzW1q7s-61pgWC6W2BFNn256dCSkf1KPdvH02?t=https%3A%2F%2Fdeveloper.yahoo.com%2Fyql%2Fconsole%2F&si=6277849534431232&pi=c80d370b-9bea-4653-9047-4ac3ecd3bd59)

You’re welcome to add any other features you like, but emphasize a simple, functional interaction. It’s possible to answer this question using only the Yahoo Local API, but feel free to use any other services or data if you find it makes the solution better or easier for you to implement.

**Puzzle #2: The Food Dictator**

Small teams of people who work together often have a tough time figuring out where to go for lunch. If you use consensus, this creates a least-common-denominator solution, very boring.  However, an elected Food Dictator is often more bold and creative in decreeing the lunch spot of the day.

Create a simple app/webapp that you can use to persist and manage a list of people who regularly go out to lunch together. The main function of the app is to provide a way for the group to determine the “food dictator” -- the person who gets to decide where to go for lunch -- in a fair and equitable manner, given the people who are present for lunch on that day.

Like other puzzles, we are interested in a clean user experience, good coding style, and the use of some external APIs or data-feeds. We’ll leave use of APIs or data feeds up to your imagination, but here are some ideas.

* load a quote-of-the-day, something relevant to lunch or dictatorship
* call out to Facebook or Google to select people from your contacts
* suggest nearby restaurants that have good reviews for lunch

Don’t limit yourself to these ideas. Be creative!

**Puzzle #3: Photo Album Builder**

Using either the Instagram API or the Flickr API, build an app/webapp that lets the user create a photo album. Build an interface allowing the user to search for photos by location or tags and manually add them to the album.

Instagram API: [https://instagram.com/ developer/](http://t.sidekickopen51.com/e1t/c/5/f18dQhb0S7lC8dDMPbW2n0x6l2B9nMJW7t5XYg2BWlCzW1q7s-61pgWC6W2BFNn256dCSkf1KPdvH02?t=https%3A%2F%2Finstagram.com%2Fdeveloper%2F&si=6277849534431232&pi=c80d370b-9bea-4653-9047-4ac3ecd3bd59)

Flickr API: [https://www.flickr.com/ services/api](http://t.sidekickopen51.com/e1t/c/5/f18dQhb0S7lC8dDMPbW2n0x6l2B9nMJW7t5XYg2BWlCzW1q7s-61pgWC6W2BFNn256dCSkf1KPdvH02?t=https%3A%2F%2Fwww.flickr.com%2Fservices%2Fapi&si=6277849534431232&pi=c80d370b-9bea-4653-9047-4ac3ecd3bd59)

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**Cheers,**

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