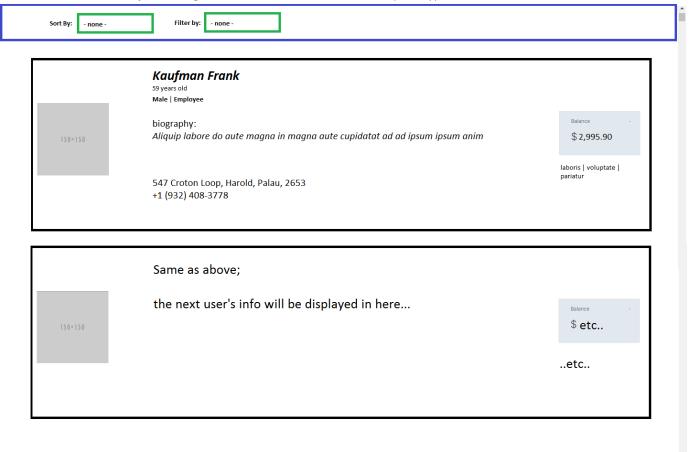


## Full Stack Developer - Take home exercise

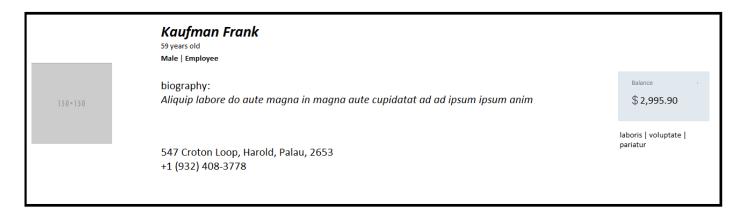
### Question 1 - Build the following

#### Part one

The final aim of this exercise is to list containers of different users in the browser; **displayed one after the other** and where the **admin keeps scrolling** to check each. This is how the final prototype should look like:



- ..More container etc...
- You are provided with two .json files: data.json and mock\_db\_data.json.
- You are required to use AngularJS (v1) on the front and Node.js (with express framework) on the back end.
- **No** database is required. You will be using the **mock\_db\_data.json** to simulate getting data from a NoSQL database.
- Each user container represents a **re-usable component (ie custom directive)**. And will look like the following (next page):



You fill a container based on json data received, like the following:

```
{
    _id: "57d46d526480ebf541389589",
    balance_cad: "2,955.90",
    picture: "http://placehold.it/150x150",
    name: "Kaufman Frank",
    gender: "male",
    phone: "+1 (932) 408-3778",
    address: "547 Croton Loop, Harold, Palau, 2653",
    bio: "Aliquip labore do aute magna in magna aute cupidatat ad ad ipsum ipsum anim.",
    date_of_birth: "1957-02-02",
    tags: [
        "laboris",
        "voluptate",
        "pariatur"
    ],
    category: "employee"
}.
```

- Your application on load should get data using a rest call to you server (the server will use the **data.json** file). You will then display the containers using this retrieved data.
- You **must** style (css) your prototype. No need for extra fancy styling, keep it simple however it should be made from **scratch** (Bootstrap, Foundation or others are not allowed). You can use flexbox for aligning, if you are familiar with it.

#### Part two

Add two dropdowns: (check image above)

- One to sort containers by either 'none' or 'name'
  - \* Should have 2 items: 'none' and 'name'
  - \* When 'none' selected no sorting happens
  - \* 'none' is loaded by default on page load
- One to filter items out based on their respective 'category': employee, investor, founder, board\_member
  - \* Should have 5 items: 'none', 'employee', 'investor', 'founder', 'board\_member' (<u>remember</u>; these are gotten from the json data response that your app receives)
  - \* When 'none' selected no filtering happens
  - \* 'none' is loaded by default on page load

Note: Make the bar that contains the dropdowns fixed (ie it will always appear while containers are being scrolled)

### Part three

The admin should be able to click on the image. On click, your application should send a server request appending the container's 'id' to the url. Something like the following:

/yourapi/ 57d46d52f728f5230c46c676

- Your server should get the data from **mock\_db\_data.json** for this task (it has 1 json object, this same object will be used for all containers for simplicity). You can mock this json data into a javascript variable for simplicity.
- Append the response data to its specific container on the UI when received.

<u>Please note</u> it is up to you to consider all optimizations, structuring, architecture and which Angular providers to use for this prototype; then decide the best approaches accordingly. These will be used for assessment.

<u>Please note</u> the app should be built from scratch. Though you are welcome to use existing angular directives in few very specific cases to optimize the performance of the app.

Please note that no unit testing is required for this prototype.

# **Question 2 (Bonus)**

How would you refactor the following angular code?

```
angular.module(app, [])
.controller('appCtrl', function ($http, $q) {
  function parseFeed(id) {
    var deferred = $q.defer();
    $http.get('/json/' + id)
    .success(function (balance) {
        $http.get('/json/' + id)
        .success(function (range) {
            var response = { balance: balance, range: range };
            deferred.resolve(response);
        });
        return deferred.promise;
    }
    parseFeed(3);
});
```