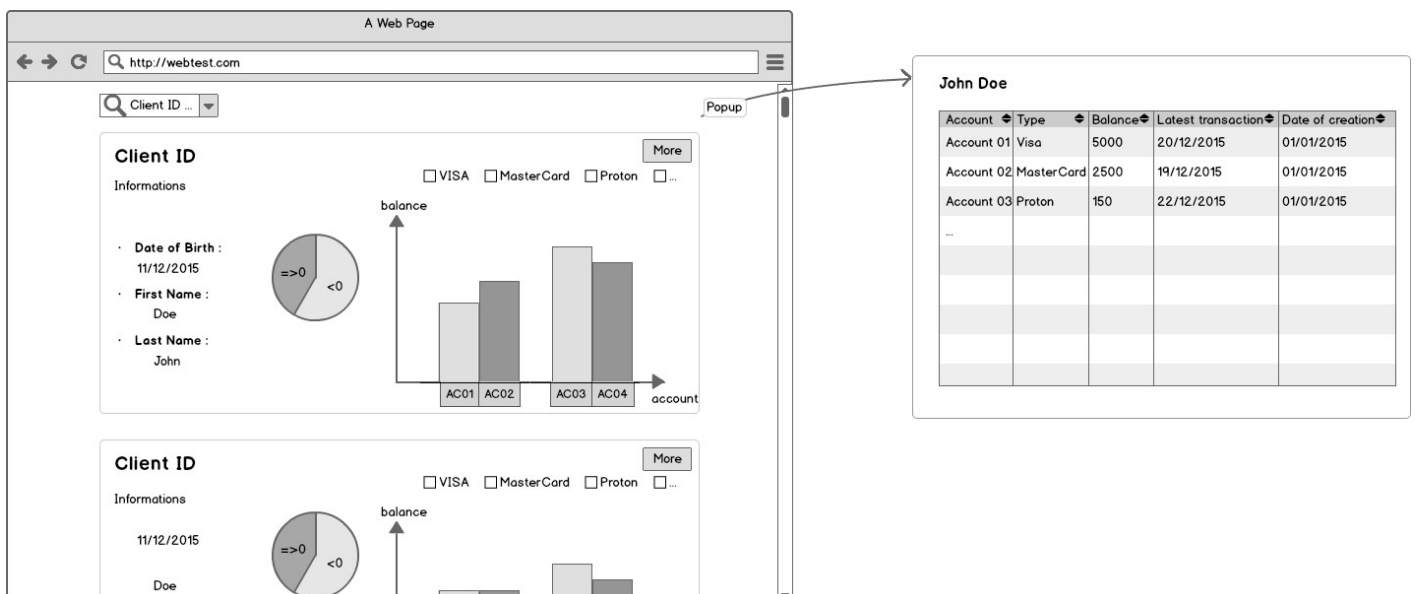


Recruitment Assessment

Frontend Engineer

Description

As a banking company, we are looking for an interface that would allow us to check the registered clients and their banking accounts. Our web designer drafted a mock-up of a web page that shows the clients and their accounts as a scrollable page.



The mock-up contains some filtering:

- on top of the page, a text filter on client's first name
- then near to each vertical bar chart showing the different accounts per client
 - a filter on the account-type (VISA, etc) with buttons that hide/show bars of the graph
 - a filter on the balance ≥ 0 or < 0 as a pie chart. The actual pie chart shows the proportion of accounts having balances ≥ 0 or < 0 , clicking on one part of the pie highlights corresponding account(s) in the vertical bar chart.

When clicking on a graph or clicking a 'More...' button, a pop-up should open, showing a listing of all the accounts of a client

For the purpose of this assessment we exposed our banking application through a RESTful API on <https://mighty-oasis-32829.herokuapp.com/api>
No authentication is needed to access the API.

The resources exposed by the api are: **clients** / **accounts**

The relations are:

- One client can have multiple accounts and of different types (e.g: one client can have 2 VISA)
- An account can be shared by multiple clients

API Call samples:

Retrieve all clients :	GET /clients
Retrieve all accounts :	GET /accounts
Retrieve accounts of a particular user:	GET /accounts?client=2
Create a client:	POST /accounts

JSON body: e.g

```
{
  'firstname': 'Brian',
  'name': "O'Reilly",
  'address': '4584 Sunny Day Drive, Irvine, CA',
  'birthday': '1989-05-23 13:25:14',
  'account': ':[5b1fd298f3ede80e984924a1']
}
```

Guidelines

- The app must be written using HTML, CSS and Javascript
- We recommend using the last version of Angular but you can pick any modern framework (React, Vue.js ...)
- You can use any EcmaScript6+ feature, you can transpile the code or use Typescript
- Keep good development practices in mind
- The mock-up gives a direction to follow for the layout but creativity is encouraged