



## FE Coding Challenge

Congratulations on getting through the first phase of the hiring process. You are required to make a submission of this coding challenge in order to proceed further. Please go through the instructions carefully. In case of any ambiguities or questions please feel free to reach out via email.

### **Guidelines**

- Create a front-end app using any tool of your liking (TypeScript)
  - React (Recommended), Angular or Vue
- The use of TypeScript is a must
- Make sure that the components are reusable and well thought of
- The coding structure should provide a clear sense of the direction, it should be well-documented
- Use of the type `any` is prohibited. Create proper types across the board.
- All APIs should have return types defined.
- Be mindful of the number of re-renders of any component you will be building
- For CSS, use Tailwind or any other UI framework i.e Material (MUI)
- A Readme.md file
  - It should have a list of step-by-step instructions to run the codebase locally.
  - Developer notes on how you have structured your components and the thought process behind them.
  - Answers to exercise questions

### **API**

We will be working with

JavaScript

```
'https://randomuser.me/api/'
```

This API allows you to fetch random user data — sample response.

JavaScript

```
{
  "results": [
    {
      "gender": "female",
      "name": {
        "title": "Miss",
        "first": "Jennie",
        "last": "Nichols"
      },
      "location": {
        "street": {
          "number": 8929,
          "name": "Valwood Pkwy",
        },
        "city": "Billings",
        "state": "Michigan",
        "country": "United States",
        "postcode": "63104",
        "coordinates": {
          "latitude": "-69.8246",
          "longitude": "134.8719"
        },
        "timezone": {
          "offset": "+9:30",
          "description": "Adelaide, Darwin"
        }
      },
      "email": "jennie.nichols@example.com",
      "login": {
        "uuid": "7a0eed16-9430-4d68-901f-c0d4c1c3bf00",
        "username": "yellowpeacock117",
        "password": "addison",
        "salt": "sld1yGtd",
        "md5": "ab54ac4c0be9480ae8fa5e9e2a5196a3",
        "sha1": "edcf2ce613cbdea349133c52dc2f3b83168dc51b",
        "sha256":
"48df5229235ada28389b91e60a935e4f9b73eb4bdb855ef9258a1751f10bdc5d"
      },
    },
  ],
}
```

```

    "dob": {
      "date": "1992-03-08T15:13:16.688Z",
      "age": 30
    },
    "registered": {
      "date": "2007-07-09T05:51:59.390Z",
      "age": 14
    },
    "phone": "(272) 790-0888",
    "cell": "(489) 330-2385",
    "id": {
      "name": "SSN",
      "value": "405-88-3636"
    },
    "picture": {
      "large": "https://randomuser.me/api/portraits/men/75.jpg",
      "medium": "https://randomuser.me/api/portraits/med/men/75.jpg",
      "thumbnail":
"https://randomuser.me/api/portraits/thumb/men/75.jpg"
    },
    "nat": "US"
  }
],
"info": {
  "seed": "56d27f4a53bd5441",
  "results": 1,
  "page": 1,
  "version": "1.4"
}
}

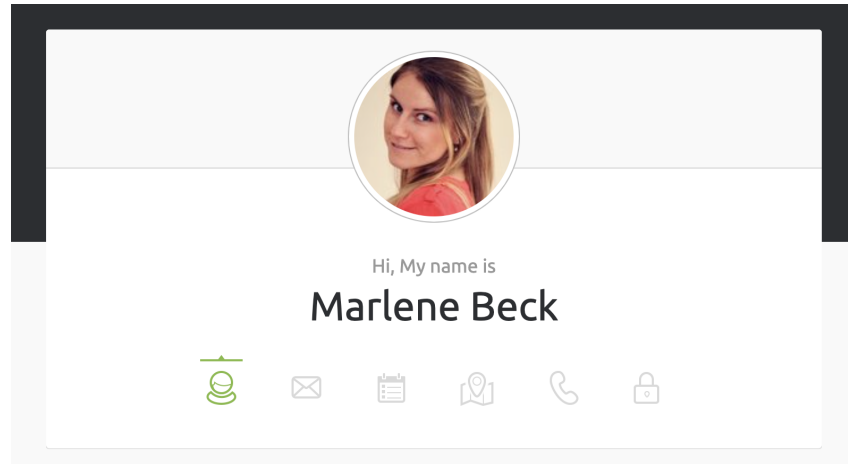
```

Here is the full [documentation](#).

### **Requirements**

- Create a listing component with pagination using the above API
- The listing component should have filters available along with pagination.
  - On the basis of gender (these filters should persist if navigated away)

- Create a search functionality for the listing page -
  - Looking forward to the approach that you will be taking
  - Please explain clearly in the Readme.md file.
- Create a public profile page, from listing we should be able to navigate to anybody's profile.



- Bonus:
  - Add Google Maps on the profile page
  - Add Nationality flag

### **Submission**

- You must share your code in a Public GitHub repository, please don't zip and share.
- Make sure there are no commented lines of code apart from comments.
- Your code should be clear and concise