Suade Labs
JS Challenge 2020

Job: JS Dev – Frontend Picasso

Introduction

This coding exercise is designed to allow you to demonstrate your skills and implement some basic frontend functionality. The goal of this exercise is to
get a better understanding of your:

- Proficiency with javascript, json and data handling
- Ability to write semantic HTML and extensible CSS
- How you structure an application from scratch (i.e. how do you build it)
- How you "document" your code (i.e. can someone else understand it)
- How you "test" your code (I.e. make sure it does what you think it does)
- Approach and creativity to solving open-ended problems

Exercise

Choose one of the given technologies, and create a JS project to build a SPA for the given scenarios.

*We are expecting you to deliver your work as a GIT project, with a README file
containing instructions on how to install/run the project.
The project should **fit on a single page application with multiple states** and should allow the user to
complete all listed user stories.*

*We value code testing greatly, so **please write tests** (unit, integration or e2e tests)!
Use the following JSON file https://updates.suade.org/files/people.json as example of data structure.*

Technology 1 – VueJS + Vuex + vue router (preferred)

Technology 2 – AngularJS using at least a directive, a filter, and a service

Technology 3 – Vanilla JS

Scenario 1 – Visualization Dashboard (preferred)

       The user should be able to:
- visualise the data as a pie chart.
- visualise the data as a bar chart.
- create dynamic interactions between charts.
- edit the data with a table or modal.
- BONUS: add a geographic chart.

Scenario 2 – Data Editor

       The user should be able to:
- upload a CSV file and visualise the file data in a table.
- edit values in the tables.
- export the edited table as JSON.
- BONUS: handle any type of CSV file.

Scenario 3 – Smart Search

       The user should be able to:
- see a paginated list of people.
- do a full text search to dynamically filter the results.
- select an item and see the details in the same page.
- BONUS: be able to search by a specific field.