Applicant Assignment (SnappPay)

We would like to express our gratitude for meeting you the other day. As the last step in our recruitment process, we would like you to complete a short coding assignment, so that we can get a feel for your coding level and a better understanding of what it would be like to work with you.

User Story

Snapp passengers need a contacts page to keep the numbers of their friends and families. This contact app has 2 pages, a home page that lists all the passenger's contacts and they can search it via a contact name or phone. And a page for each contact that shows a single contact with more details. Each time a passenger opens a contact details, a visit is recorded on the client side. In order to make it easier for the passenger to find their contacts we want to show the 4 latest visited contacts on top of the list so they don't need to search for them.

As a user, I need to see a single-page application (SPA) that shows list of contacts and each contact details:

1. On the home page, If I don't search for anything, a list of contacts (avatar, name, phone, city) should be displayed.
2. If I enter a name or a phone inside a search box the list must be filtered.
3. At the top of the list, there should be the last 4 contacts that I've visited (If I have visited contacts). We are going to call them frequently visited contacts.
4. If I click on any of the contacts, I should go to another page to see the full details for that person.
5. When I go to a contact page, a visit should be recorded and the frequent contact list must be updated. There is no APIs for tracking frequently visited contacts so you should handle this on the client side.
6. This is very important that your final job should not have any bugs.
7. Avoid over engineering at the same time don't ignore important details. For example using a router for routing is a good decision but using a very complex animation library for a simple hover effect is over engineering. This is your decision so choose wisely.

Getting Started

When you received the code assignment email from Snapp HR, you should download the zip file attached to the email. Un-archive the file and you should see such directory structure:

1. You should see a directory called "backend". CD to that directory and run "npm i && npm start". This will install all the dependencies and fire up the API server that you need to complete the above tasks. The server will be started on your localhost:1337.
2. You can find the API documentation at "backend/docs/passenger.postman_collection.json". This is a Postman collection so you can import it to the Postman app. You can download Postman from **https://www.postman.com/**.
3. Do not change any files inside the "backend" directory. Your code would be tested with an unchanged back-end so if you make changes to the default back-end you will fail the tests.
4. You should write your code in the frontend directory. The reviewer will cd into the frontend directory and run "npm i && npm start"(or your specified commands in frontend/Readme.md) and your project should work. If you prefer to create this directory via a CLI tool feel free to delete it and create it via your desired CLI tool.
5. Make sure that the frontend directory should be a git repository from the moment you start your work.

Note:

The project should be implemented by React.js
Setting up the project from scratch is a plus; If you decide to do so, please use Webpack for bundling, and note that you'll be asked to elaborate on the steps taken and packages used. If you decide not to setup the project yourself, then you must use Create React App.
Writing tests is a plus, but if you decide to do so, please make sure you cover main functionalities, and that the test suite passes.
You have up to 7 days to complete and send us the final result.
Please provide the project in a private GitHub repository.
Using the best practices of Git (i.e., GitFlow), the correct way of commenting and feature branch workflow is highly appreciated.
Once you are done working on the assignment, add the usernames "ali-garajian", "keikaavousi", "mostafaheirani" to the collaboration list, so that we can accessyour code for review.
Include a README.md file on how to build and run the project.
The project doesn't have to look fancy, but if it does, that is a good point!
Consider the project to be for a customer, it should be fully functional and have the requirements of any real-world project.
Your code will be reviewed by us, and we will schedule a one-hour Skype call to discuss the choices you made, what parts could be improved, etc.
If you have any questions, please do not hesitate to contact us.