NGT Frontend Developer Test

June 2020

About us

Next Gate Tech is a Luxembourg based data-driven FinTech that provides innovative Software-as-a-Service products for the asset management industry. We capitalize on the rapid emergence of cloud-based computing frameworks to provide fast, accurate and robust solutions to our clients.

A key component of our solution is the front-end web platform that helps several industry players to manage their middle and back office tasks.

This is where we need you, a genius front-end developer that can shape, develop, and expand a beautifully and highly functional front-end dashboard. You serve as the middleman between the UX/UI designer and the back-end engineers that deliver the results in the format that you define.

The test

The goal of this test is to create a small dashboard with a page that displays a summary of multiple results. The results can be downloaded as a .csv file from the following link. The data is structured in a long format with multiple columns, containing:

- Fund Name & ID
- Subfund Name & ID
- Share Class Name & ID
- Report Status (report_status)
- Number of Alerts (nb_alerts)

To understand the differences, a typical hierarchy looks as follows: a fund can be seen as a group that can contain multiple subfunds; a subfund can be seen as a sub-group that can contain multiple share classes (thus fund > subfund > share class). For example:

Fund A	*Subfund A1*	*Share Class A1a*
Fund A	*Subfund A1*	*Share Class A1b*
Fund A	*Subfund A2*	*Share Class A2a*
Fund A	*Subfund A2*	*Share Class A2b*
Fund B	*Subfund B1*	*Share Class B1a*
…		

Each row in the dataset is a single result on a single day for a fund/subfund/share class combination. For instance:

index	fund_name	subfund_name	share_class_name	date	report_status	nb_alerts
0	Three Sigma	High Volatility	Class A	20100101	TRUE	1

This means that on *2010-01-01* for *Three Sigma > High Volatility > Class A* is ready (TRUE) the report is ready (report_status=TRUE) and it has 1 alert.

The challenge

- In the first part of this test you will need to convert the results to a json structure of your choice, and upload the results to a new Firebase Database (Please use Firebase Realtime Database and NOT Cloud Firestore), and thus new Firebase Project.
- Next comes the fun part where you will need to consume the data from the Firebase database and display it in a mini front-end dashboard. Use any front-end language or styling structure as you please.
- Deploy your work to something like Firebase Hosting

Delivery

- Please upload your work to Github in a new repository and add @SAIbisevic as a collaborator
- Send us the link of your repository to hr@nextgatetech.com or fanni.koncz@nextgatetech.com
- Send us the link of your deployed web app to the same addresses

Have fun!

Supporting material

- Documentation for Firebase Realtime Database Web > Getting Started: https://firebase.google.com/docs/database/web/start

- Link to the data: https://storage.cloud.google.com/nextgatetech-public/tests/data.csv

- Firebase Hosting: https://firebase.google.com/docs/hosting