Kanyimuta Practical Test Assignment (Frontend Engineer)

Candidate: Louis Nwosu
Level: Mid - Senior
Due: EOD Friday March 26, 2020

To help us better ascertain your knowledge on this role, we have prepared these tasks. Please take your time and we can't wait to see what you come up with.

TASK 1
This task tests your knowledge of React (our frontend stack).

Build a **React** application that consumes a public API, (you're free to work with any API of your choice)

Note:
- You must use Typescript for this.
- You must also use SASS.
- Use React Redux (and hooks where necessary) for state management
- Test where applicable.
- We look out for proper architecture/organization and reusable components
- Also ensure you comply with semantic rules.
- We would also be taking note of your UI
- Push the app to a public github repository as well as make it available on Netlify, Heroku or any other free hosting platform.

TASK 2
This task tests your ability to logically come up with efficient solutions/algorithms to problems.

You have a response from an API below.

```
{
 "notifications": [
    "{{172edb5e-0434-fb4b-abec-96bedc814599}} mentioned you in a post
\n{{173d80bc-a995-c2ba-3d80-61d641b482df}}",
    "{{173d8098-ea25-dc4c-2c28-d1691ed8ea13}} sent you a friend request."
 ],
 "entities": {
    "173d80bc-a995-c2ba-3d80-61d641b482df": {
      "subject": "@backend what's up again?",
      "type": "POST"
    },
    "172edb5e-0434-fb4b-abec-96bedc814599": {
      "subject": "Power Sunday",
      "type": "USER"
    },
    "173d8098-ea25-dc4c-2c28-d1691ed8ea13": {
      "subject": "Emmanuel Sunday",
      "type": "USER"
    }
 }
}
```

You have two properties in the above response, "notifications" (a list), and "entities" (an object)

Each item in the "notifications" list is a string, that contains references to the objects in the "entities" object. The uid sequence enclosed in the {{}} points to a specific object in the entities list.

Write a program that replaces these references with the subject of its correspondence in the "entities" object. Resolves to

Example:

```
"{{172edb5e-0434-fb4b-abec-96bedc814599}} mentioned you in a post
\n{{173d80bc-a995-c2ba-3d80-61d641b482df}}"
```

resolves to:
```
Power Sunday mentioned you in a post
@backend what's up again
```

Note:
- You must use Typescript for this.
- Be efficient as possible.
- Store the typescript project/file in a "scripts" folder at the root of **task 1**

Goodluck!