Viaplay Tech Trainee 2019: Coding Test

We are interested in the quality of the implementation rather than the quantity of features. We value originality and creativity. The application and the code should be of such quality so that it can be read and maintained by other developers. You may target and run the application on any platform. The task can be written in any of the recommended programming languages using the listed frameworks. We encourage you to use the latest standards available.

Backend task

Your task is to create a REST API that can read and write into the provided db while providing endpoints to clients from which they will be able to perform basic CRUD (Create, Read, Update, Delete) operations on the database. Instructions on how to setup the mongoDB container provided and an example of the data included is briefly described in the next section. Feel free to modify the schema of the database if you think it is necessary.

Some of the suggested features you could try are listed here (Please attempt at least three features here) -

- An endpoint that lets the client get a list of all restaurants
- An endpoint that lets the client get more info on a single restaurant
- An endpoint that accepts a POST request to add new restaurants to the DB
- Functionality to delete restaurants from the DB through the API
- Functionality to fetch a sorted list of restaurants based on relevant attributes
- Functionality to fetch a filtered list of restaurants based on relevant attributes

Optional:

- Any other features that can demonstrate your skills.
- Tests
- Dockerize

Languages and Frameworks:
Node.js, Python

How to setup the API locally on your machine:

1. Install docker - https://www.docker.com/products/docker-desktop
2. Install docker-compose - https://docs.docker.com/compose/install/

3. Extract the contents of the .zip file
4. Make sure ports 27017 are not being used by other processes on your computer (in case you have a different instance of mongo running already)
5. Navigate into the unzipped folder through a terminal and run `docker-compose up --build`
6. The mongo db instance should be running on port 27017 and there will be a database named 'viaplay' and a collection named 'restaurants' with all the data. You should be able to see the message `It looks like you are trying to access MongoDB over HTTP on the native driver port.` if you navigate to http://localhost:27017 on the browser.

Example row in the DB viaplay.restaurants:

```
{
  "_id":{
    "$oid" : "5c8264790ba555001448f44f"
  },
  "Opening_hours":[
    "Monday: 11:00 AM - 3:00 PM",
    "Tuesday: 11:00 AM - 3:00 PM",
    "Wednesday: 11:00 AM - 3:00 PM",
    "Thursday: 11:00 AM - 3:00 PM",
    "Friday: 11:00 AM - 3:00 PM",
    "Saturday: Closed",
    "Sunday: Closed"
  ],
  "address":"Repslagargatan 8, 118 46 Stockholm, Sweden",
  "phone_number":"08-641 20 77",
  "Location":{
    "Lat":59.31781179999999,
    "Lng":18.0701277
  },
  "icon":"https://.../restaurant-71.png",
  "name":"Tamarindo","price_level":1,
  "Rating":4.4,
  "google_maps_url":"https://..../126300605621",
  "website":"http://www.tamarindo.se/",
  "photo":"https://.../architecture-1837150_1280.jpg",
```

```
  "id":0,
  "__v":0
},
```

The fields starting with _ (underscore) are relevant to mongo db and should not be used.

Included files
The files provided include a db export in the .json format. This is provisioned to create a mongodb that you use.

Evaluation Criteria / Assessment:

We assume that the application works, and that the structural, architectural and coding standards are good. We also require that you add a README.md or README.pdf file that explains
1. Instructions on how to run your application. (including toolset versions)
2. List of features completed/attempted.
3. Short explanation of your design decisions if necessary.
4. Possible improvements and bugs if any.
5. Other ideas and thoughts on the application you have written.

Submission
Your solution should be submitted using a Git repository on GitHub. You can send us a link to a public repository, or an invitation to a private one to **erica.fahlstrom@viaplay.com** no later than **Monday 18th at 23.59**.

*If you have any questions, feel free to contact **erica.fahlstrom@viaplay.com**.*

Good Luck!

Nordic Entertainment Group & Viaplay