## Node.js - BE developer exercise

### Endpoints monitoring service

Create REST API JSON Node.js microservice, which allows to monitor particular http/https

#### The service should allow to:

- 1. Create, Edit, Delete monitored URLs and list them for particular user. (CRUD)
- 2. Monitor URL(s) on background and log status codes + returned payload
- 3. For each particular monitored URL to be able to list last 10 monitored results.

#### Data model:

This is our suggestion for the data model, you can edit it as you wish.

#### MonitoredEndpoint has:

id: (the type is up to you :-))

name : string url: string

Date of creation: DateTime
Date of last check: DateTime

monitoredInterval: Integer (in seconds)

owner: User

#### MonitoringResult has:

id: (the type is up to you :-) )
Date of check: DateTime

returned http status code: Integer

returned payload: String

monitoredEndpointId: MonitoredEndpoint

#### **User** has

id: (the type is up to you :-))

UserName: String

Email: String

AccessToken: UUID like String

For User, we do not expect to have a CRUD, it's fine and enough to have it seeded in database.

```
It is expected:
{
    name: "Applifting",
    email: "info@applifting.cz",
    accessToken: "93f39e2f-80de-4033-99ee-249d92736a25"
},
{
    name: "Batman",
    email: "batman@example.com",
    accessToken: "dcb20f8a-5657-4f1b-9f7f-ce65739b359e"
}
```

#### In detail:

- Design REST endpoints for management of MonitoredEndpoints (if you do not know how, do not hesitate to ask us through github:-))
- Monitor endpoints on background and create MonitoringResult.
- Implement endpoint for getting MonitoringResult
- Implement microservice created in Node.js framework ideally written in TypeScript (if you don't want or you don't know to use typescript, use ES6 or later). For database use: MySQL. As REST framework use Restify.
- Autentisation do in HTTP header according to your choice, you will get the accessToken in it.
- Autorisation User can see only MonitoredEndpoints and Result for him/herself only (according to accessToken)
- Do not forget about model validations (what is necessary to validate is up to your decision)
- Write basic tests in Mocha or Jest
- Push all into public repo at GitHub
- Create readme, where you describe how to start and use the service
- Send us Github link
- Bonus points for: create Dockerfile, add docker-compose and describe, how you start and run it in docker.

# Good luck, have fun!