

# Microservices coding challenge

## Backend developer task

### Acceptance criteria

1. As an api consumer, given username and header "Accept: application/json", I would like to list all his github repositories, which are not forks. Information, which I require in the response, is:

- a. Repository Name
- b. Owner Login
- c. For each branch it's name and last commit sha

- As an api consumer, given not existing github user, I would like to receive 404 responses in such a format:

```
{ "status": ${responseCode} "Message": ${whyHasItHappened} }
```

- As an api consumer, given header "Accept: application/xml", I would like to receive 406 responses in such a format:

```
{ "status": ${responseCode} "Message": ${whyHasItHappened} }
```

### Notes

1. Please full-fill the given acceptance criteria, delivering us your best code compliant with industry standards.
2. Please use <https://developer.github.com/v3> as a backing API
3. Please write your api spec in swagger yaml file
4. Application should have a proper [README.md](#) file
5. Please use any reactive framework of Your choice (Java or NodeJs preferably)
6. Proper unit and integration test cases

### Extended challenge

It is not mandatory to do the below deployment setup that is part of the extended challenge but if provided it will be added points to the assessment and will also confirm your devops working knowledge.

### Deployment setup

- Prepare Dockerfile so that app can be run in a container
- Prepare CloudFormation scripts so that the containerized app will be run as a Fargate service (or directly in ECS
- You choose) Prepare CloudFormation scripts, that will create API Gateway and expose the app thru it
- Prepare Jenkins pipeline, that will build the app and deploy it to AWS using scripts from steps above (use free tier AWS account)