

## Overview

I have created a fully working API that handles the functionality described in the task specification with the appropriate HTTP methods. I have used flyway and Spring Data JPA in order to persist data. The application is secured using Spring Security. The application has both unit, integration and end-to-end tests.

### Did not accomplish:

I did not manage to figure out how to convert a custom query (ref: AnimalRepository.kt) into a data class so that I could use it as an object in the AnimalService class. I was only able to use the data with a “Any” datatype in order to print the results in a ResponseBody.

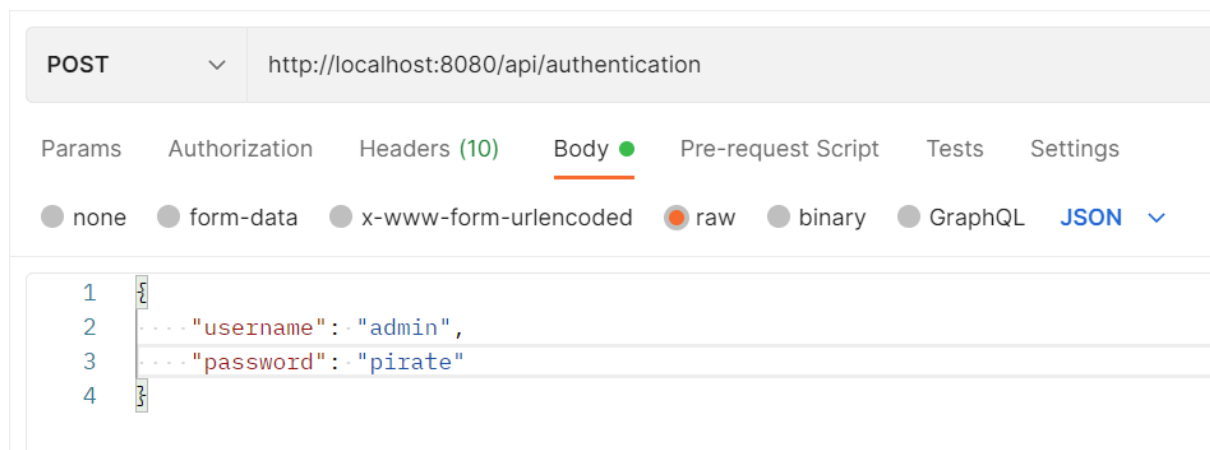
I also wanted to add some endpoints in order to perform some CRUD operations on both the Type and Breed entities/tables.

## Instructions:

I have added a short description of the endpoints below, as well as screenshotted my usage of postman. I have also put a postman-collection in src/main/resources/report.

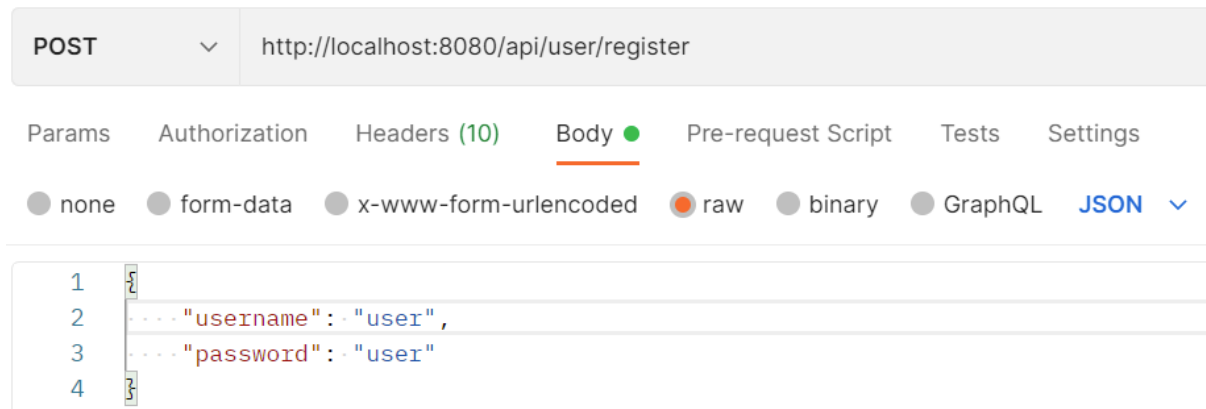
### POST: /api/authentication

- The login endpoint, takes username and password
- No restrictions



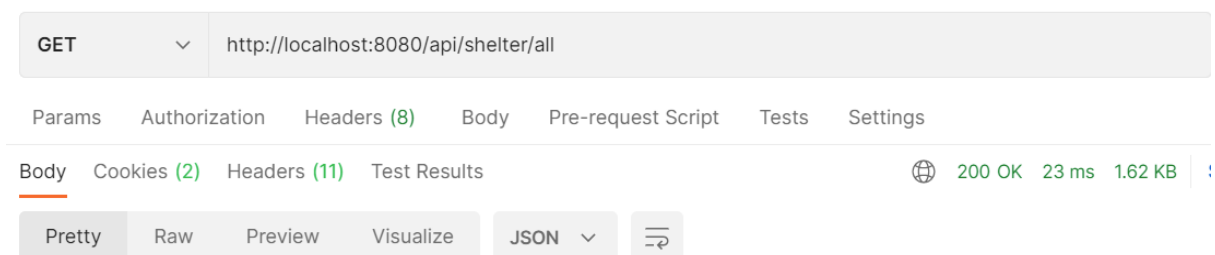
### POST: /api/user/register

- Endpoint for creating new user, takes username and password
- No restrictions



### GET: /api/shelter/all

- Endpoint for showing all animals
- Must have USER authority



### PUT: /api/shelter/update

- Endpoint for updating animal properties
- Takes name, age, weight, typeId, breedId in BODY
- Takes id queryparameter in url
- Must have USER authority

PUT ▼ http://localhost:8080/api/shelter/update?id=1

Params ● Authorization Headers (10) Body ● Pre-request Script Tests Settings

● none ● form-data ● x-www-form-urlencoded ● raw ● binary ● GraphQL **JSON** ▼

```
1 {
2   ... "name": "Petter",
3   ... "age": 3,
4   ... "weight": 1069.3,
5   ... "typeId": 1,
6   ... "breedId": 1
7 }
```

**GET: /api/shelter/get**

- Endpoint for getting a single animal
- Takes id as queryparameter
- Must have USER authority

GET ▼ http://localhost:8080/api/shelter/get?id=3

Params ● Authorization Headers (8) Body Pre-request Script Tests Settings

**POST: /api/shelter/add**

- Endpoint for adding new animal
- Takes name, age, weight, typeId, breedId
- Must have USER authority

POST ▼ http://localhost:8080/api/shelter/add

Params Authorization Headers (10) Body ● Pre-request Script Tests Settings

● none ● form-data ● x-www-form-urlencoded ● raw ● binary ● GraphQL **JSON** ▼

```
1 {
2   ... "name": "Kari",
3   ... "age": 3,
4   ... "weight": 102.3,
5   ... "typeId": 1,
6   ... "breedId": 1
7 }
```

**GET: /api/shelter/display**

- Endpoint for seeing custom sql query with type and breed-names instead of type-id and breed-id
- Must have USER authority

GET ⌵ http://localhost:8080/api/shelter/display

Params Authorization Headers (8) Body Pre-request Script Tests Settings

Body Cookies (2) Headers (11) Test Results

200 OK

### DELETE: /api/shelter/delete

- Endpoint for deleting an animal
- Takes id as queryparameter
- Must have ADMIN authority

DELETE ⌵ http://localhost:8080/api/shelter/delete?id=3

Params Authorization Headers (8) Body Pre-request Script Tests Settings

☒ none ☐ form-data ☐ x-www-form-urlencoded ☐ raw ☐ binary ☐ GraphQL

### GET: /api/user/all

- Endpoint for viewing all users
- Must have ADMIN authority

GET ⌵ http://localhost:8080/api/user/all

Params Authorization Headers (8) Body Pre-request Script Tests Settings

☒ none ☐ form-data ☐ x-www-form-urlencoded ☐ raw ☐ binary ☐ GraphQL

### GET: /api/user/authorities

- Endpoint for viewing all authorities
- Must have ADMIN authority

GET ⌵ http://localhost:8080/api/user/authorities

Params Authorization Headers (8) Body Pre-request Script Tests Settings

PG5100 Exam

Candidate Number: 1066