Leaseweb code test:

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Api:

Rest API capable of listing server(s) and narrow the list by applying filters. The results are paginated(10) and all the requests are validated before performing any actions. The user needs to register and login in order to retrieve the servers. I used Laravel framework and PHP 7.4.6.

Installation:

(through the command line)

- a) git clone https://github.com/antonisid/rest-servers-api.git
- b) composer install
- c) copy the .env.example to .env file (cp .env.example .env)
- d) create a mysql DB and add the credentials to the following section of the .env file:

DB_CONNECTION=mysql

DB HOST=127.0.0.1

DB PORT=3306

DB DATABASE=leaseweb

DB_USERNAME=root

DB_PASSWORD=password

- e) php artisan migrate (creates the tables)
- f) php artisan db:seed --class=ServerSeeder (seeds the DB from the csv file)
- g) php artisan jwt:secret
- h) php artisan serve (serves the application on 127.0.0.1:8000)

Unit testing

You can execute the tests with the following command:

Mac: ./vendor/bin/phpunit - Windows: "./vendor/bin/phpunit"

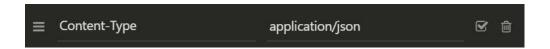
```
Time: 1.83 seconds, Memory: 30.00 MB

OK (20 tests, 38 assertions)
```

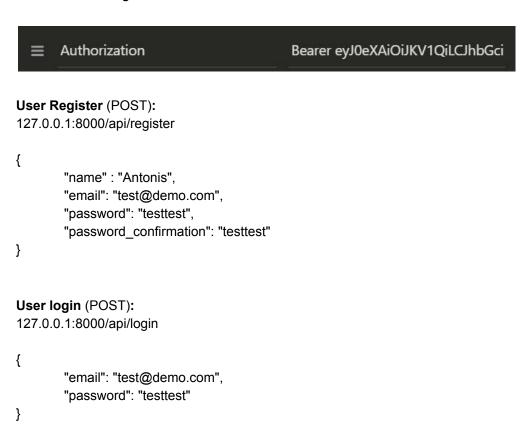
^{*}You can refresh the database with: php artisan migrate:fresh

Endpoints:

The POST requests for the login & register endpoints should be sent with the following header:



The GET requests should be sent with the following header along with the token that was retreived after login.



Example response:



List servers (GET):

127.0.0.1:8000/api/servers (equivalent to: 127.0.0.1:8000/api/servers?page=1)

List servers by location(GET):

127.0.0.1:8000/api/servers?location=AmsterdamAMS-01

List servers by storage(GET):

127.0.0.1:8000/api/servers?storage[min]=3000&storage[max]=4000

List servers by ram(GET):

127.0.0.1:8000/api/servers?ram[]=8&ram[]=32

List servers by hard disk type(GET):

127.0.0.1:8000/api/servers?hard_disk_type=ssd

List servers using pagination (GET):

127.0.0.1:8000/api/servers?page=2

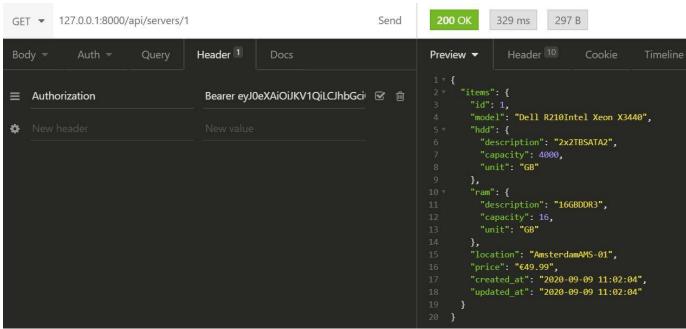
List servers with all the filters combined (GET):

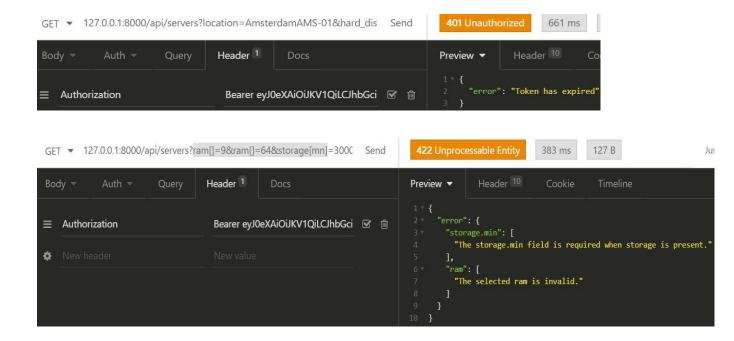
127.0.0.1:8000/api/servers?location=AmsterdamAMS-01&hard_disk_type=sata&ram[]=8&ram[]=32&s torage[min]=3000&storage[max]=4000

Get server (GET):

127.0.0.1:8000/api/servers/1

Example responses:





Example code flow for listing servers:

JwtMiddleware->ServerController->ServerService->ServerRepository->ServerFilter ->Filter Interface*->ServerDto->ServerTransformer->JsonResponse

*Location, Ram, Storage, HardDiskType

You may start browsing starting from the following controllers:

UserController ServerController

Request validation:

App/Http/Requests/

Exception handler:

App/Exceptions/Handler.php

Tests:

/tests/Feature/ /tests/Unit/

Filters/

App/ServerFilter/Filters/

Thank you for your time.

If you have any questions or encounter issues please feel free to contact me.

Regards, Antonis Sideris