New Kids On The Blog

CPSC-476 Blog Microservice

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The Setup

1) Virtual Environment Setup

Python 3 is packaged with a virtual environment. Should be good so that we all have the same dependencies.

From the project directory, run the following commands:

a) On *nix environment:

Using <u>Tuffix (https://github.com/kevinwortman/tuffix)</u>? You'll also need this: sudo apt-get install python3-venv

python3 -m venv venv

b) On Windows:

py -3 -m venv venv

2) Start the virtual environment:

. venv/bin/activate

3) Then install dependencies with:

pip3 install -r requirements.txt

As a developer, to update dendency file:

pip3 freeze > requirements.txt

4) Additionally, you'll have to install foreman:

sudo apt install ruby-foreman

5) Nginx needs to be installed for load balancing support:

sudo apt install nginx nginx-extras

6) Delete default port 80 file

sudo rm /etc/nginx/sites-enabled/default

7) Copy blog file from project to your Nginx sites-available directory. Create a symlink to the sites-enabled and restart Nginx service:

```
sudo cp blog /etc/nginx/sites-available<br/>
sudo ln -s /etc/nginx/sites-available/blog /etc/nginx/sites-enabled/blog<br/>
sudo service nginx restart
```

8) Finally, the database must be initialized. From the top-level directory run the following command:

foreman run init-db

To Run

All microservices can be started in a formation using the following command

foreman start -m users=3,articles=3,tags=3,comments=3

Networking

Service Port Articles :500n Tags :510n Comments:520n Users :530n

n indicates the individual instance of the microservice running in a formation. For three instances of the Users service, the instances should be running on ports 5300-5302.

API Documentation

API documentation is available on our <u>Postman page</u> (https://documenter.getpostman.com/view/262836/S11PpFTY)

To Test

1) Initialize the database with test data

foreman run init-data

2) Run the tests

py.test

This will execute all tests in the tests directory in alphabetical order and has been tested to work with the default testing database.