**LightVision Test**

**Instruction**

This document provides instructions for installing and running the test results.

## Set up environment

#### Clone source

- Clone all of the source code and document to local.

- Open in an IDE (recommend vscode)

- Open terminal of vscode.

#### Set up docker

- Make sure docker desktop is installed.

- Open docker desktop

#### Build image for backend service

- In terminal, run the following command:

“docker build -t be-python-3-12:1.0.0 .”

The backend server is built with Django. Use python version 3.12

#### Config Nginx

- Use Nginx to config proxy

- All of the config is in /nginx/

#### Create docker-compose

- Docker containers are define in file docker-compose.yml

- Open file .env and change the value of SOURCEROOT to current directory.

#### Run container

- In terminal, run the following command to create the network:

“docker network create lv-network”

- In terminal, run the following command to run containers:

“docker compose up -d”

There are 3 containers are created:

+ backendapi

+ lv-nginx

+ pgdb

#### Add host

Need to add host to the hosts file to be able to call the backend server through “http://lvtest.me/” and db pgdb

- Find file hosts in your system (depending on your os).

- Add:

“127.0.0.1 vltest.me”

“127.0.0.1 pgdb”

#### Migrate data

- In docker desktop, Open container backendapi (makesure it is running)

- Open tag Exec

- Run command:

“bash”

“python manage.py makemigrations”

“python manage.py migrate”

#### Setup to run scripts

- Make sure python vertualenv is installed.

- In terminal of vscode, run:

“cd scripts”

“./venv/Scripts/activate”

“pip install -r requirements.txt”

- After all of the libraries are installed, you can launch the scripts.

- In terminal of vscode, run:

“python scripts.py”

- The program will show you the instruction to use script.

## Test

#### Test API

- Make sure postman is installed.

- Open postman and import collection: “./documentation/LV Test.postman\_collection.json”

- Test APIs by send request (make sure all of the containers are running)

#### Test Scripts

- Make sure all of the containers are running.

- In terminal of vscode, run:

“python scripts.py”

- The program will show you the instruction to use script.