## Server setup

Will use Ubuntu Server 18.04 LTS for the setup, although any UNIX OS should work with slight modification (depending on package manager etc.).

## 1. Requirements

Install NGINX and Virtualenv, PCRP and FCGIwrap using:

```
sudo apt update
sudo apt upgrade
sudo apt install nginx virtualenv libpcre3 libpcre3-dev fcgiwrap
```

## 2. Setup

All places where there are groupXX in the commands, it should be replaced with the group number, e.g. group01 for group number 1. This also includes port numbers 40XX and 80XX.

## 2.1 Django

Clone repo into folder and setup the virtual environment, database and static files. And make sure that www-data owns the data.

```
cd /home/www-data/
git clone <repo-link> groupXX
cd groupXX
virtualenv -p python3 venv
source venv/bin/activate
pip install -r requirements.txt
cd sec
python manage.py migrate
printf 'STATIC_ROOT = "/home/www-data/groupXX/static/"\nMEDIA_ROOT =
"/home/www-data/groupXX/media/"\n' > sec/local_settings.py
python manage.py collectstatic
cd /home/www-data/
```

```
chown www-data:www-data -R groupXX
2.2 Systemd Service
Setup a service to start the uwsgi server (use nano instead of vim if you are not familiar with vim)
sudo vim /etc/systemd/system/groupXX.service
Fill in the file with the content
[Unit]
Description=UWSGI daemon for group XX
After=network.target
[Service]
User=www-data
Group=www-data
ExecStart=/home/www-data/groupXX/venv/bin/uwsgi --chdir=/home/www-data/groupXX/sec
-w sec.wsgi:application --processes=2 --uid=33 --gid=33 --harakiri=20
--home=/home/www-data/groupXX/venv --http :80XX --master
[Install]
WantedBy=multi-user.target
Then enable and start the service use
sudo systemctl enable groupXX
sudo systemctl start groupXX
The service will then start on boot
2.3 NGINX
Add a new site to the nginx configuration
```

sudo vim /etc/nginx/sites-available/groupXX

```
Fill the file with the following content
server {
      listen 40XX;
      index index.html;
      location / {
            proxy_redirect off;
            proxy_set_header Host 127.0.0.1;
            proxy_pass <a href="http://127.0.0.1:80XX">http://127.0.0.1:80XX</a>;
      }
      location /static/ {
            root /home/www-data/groupXX/;
      }
      location /media/ {
            root /home/www-data/groupXX/;
            location \sim (\.py|\.sh) {
                  gzip off;
                  fastcgi_pass unix:/var/run/fcgiwrap.socket;
                  include /etc/nginx/fastcgi_params;
                  fastcgi_param SCRIPT_FILENAME
/home/www-data/groupXX/$fastcgi_script_name;
            }
      }
}
```

sudo ln -s /etc/nginx/sites-available/groupXX /etc/nginx/sites-enabled/groupXX

Then enable the site and restart nginx use

sudo systemctl restart nginx