Deploying the Mental Health Thermometer

Requirements

The Mental Health Thermometer web application is built on the Django framework. To be able to deploy the web app to the world wide web, you simply need a linux based server which can support python and apache or another web server application such as ngnix.

When installing Django, please ensure it is **version 1.7.**

This guide assumes a Ubuntu/Debian server, slight modifications may be needed otherwise.

Deploying using Apache

SSH into your VPS (e.g. from Amazon EC2, DigitalOcean or others)

Step 1: Install required applications

This can be done by running the following commands:

    sudo apt-get update
    sudo apt-get install apache2 libapache2-mod-wsgi
    sudo apt-get install git
    sudo apt-get install python-pip
    sudo pip install django==1.7

Step 2: Upload web app files

Move into /var/www/

    cd /var/www

Web App can be easily uploaded via cloning the GitHub directory:

    sudo git clone https://github.com/SinaKK/MHApp.git

[Alternatively: this can be done manually by create a folder called "MHApp" and upload the "mhproject" folder here.

    cd /var/www
    mkdir MHApp
    // upload mhproject folder to /var/www/MHApp]

You should now have the web app files in /var/www/MHApp/mhproject

Step 3: Configure Apache

You need to edit the apache config file to load and use our wsgi file:

```
sudo nano /etc/apache2/sites-enabled/MHApp.conf
```

Paste the following into the file (Ctrl-Shift-V) and save (Ctrl-O):

```
WSGIScriptAlias / /var/www/MHApp/mhproject/mhproject/wsgi.py
WSGIPythonPath /var/www/MHApp/mhproject/
<Directory /var/www/MHApp/mhproject/mhproject  >
   <Files wsgi.py>
      Order deny,allow
      Require all granted
   </Files>
</Directory>


Alias /static/ /var/www/MHApp/mhproject/static/


<Directory /var/www/MHApp/mhproject/static>
   Require all granted
</Directory>
```

Step 4: Configure Web App

Move into /var/www/MHApp/mhproject and configure and setup the web app by running the following:

```
cd /var/www/MHApp/mhproject
crontab emailcron.txt
python manage.py collectstatic
python manage.py syncdb
python install.py
```

This will setup the web app, initialize the database and insert the initial data, questions, admin user etc.
Default Admin Username: **mhapp** Password: **mhapp**

Step 5: Restart Apache

```
sudo service apache2 restart
```

Done! Web app should now be working.
(If there are errors see appendix)

Appendix

DigitalOcean

DigitalOcean is a hosting provider that provides cheap hosting (from $5 a month) and has the advantage of one-click installation of Django. This will use ngnix and gunicorn instead of apache. Here is a guide:

https://www.digitalocean.com/community/tutorials/how-to-use-the-django-one-click-install-image

"Unable to read database" Error

If you get this error the run the following commands in /var/www/MHApp/mhproject:

    chown www-data. .
    chown www-data. db.sqlite3
    sudo service apache2 restart

Amazon EC2

A guide for running Django on an Amazon EC2 instance:

http://www.nickpolet.com/blog/deploying-django-on-aws/1/

Contact

If there are any issues, contact me at khaksar.sina@gmail.com