System Manual

December 2016

1 Deploying to EC2

Here is a list of instructions required to deploy the project to an EC2 instance. These instructions assume the machine is preloaded with Amazon Linux AMI, and you are connected to that instance (via PuTTy or ssh).

1. Open port 8000 of EC2 instance from EC2 console

2. Install the required programs and python packages with following commands:

```
$ sudo yum install git python35 python35-pip postgresql
        postgresql-server gcc python35-devel postgresql-devel
$ sudo pip-3.5 install django djangorestframework psycopg2
        requests django-allauth djangorestframework-bulk drfdocs
```

3. Set up PostgreSQL server with the following commands:

```
$ sudo service postgresql initdb
$ sudo service postgresql start
$ sudo su - postgres
$ psql
```

4. Run the following SQL commands to initialize our webserver user and database:

```
> CREATE DATABASE cocomap;
> CREATE USER cocouser WITH PASSWORD '1234';
> GRANT ALL PRIVILEGES ON DATABASE cocomap TO cocouser;
> ALTER USER cocouser CREATEDB;
```

5. Exit the *postgres* user and edit file /var/lib/pgsql9/data/pg_hba.conf to allow password access:

```
$ exit
$ sudo vim /var/lib/pgsql9/data/pg_hba.conf
```

6. In /var/lib/pgsql9/data/pg_hba.conf, change **METHOD** columns from **peer** to **md5**:

   ```
   :%s/peer/md5/g
   :wq
   ```

7. Clone our repo with the following bash command:

   ```
   $ git clone https://github.com/bounswe/bounswe2016group11.git
   ```

8. Add the EC2 host name to **ALLOWED_HOSTS** variable in bounswe2016group11/djangoproj/settings.py

9. Create a *tmux* instance to run our server in:

   ```
   $ tmux new -s cocomap
   ```

10. Within the *tmux* instance, go to project folder, make database migrations and run the server:

    ```
    $ cd bounswe2016group11
    $ python3 manage.py migrate
    $ python3 manage.py runserver 0.0.0.0:8000
    ```

11. Safely detach from the tmux instance with key sequence **CTRL-B**, **D**.

12. You should be able to access the app through `<EC2-HOST>:8000/cocomapapp`

2   Opening Android Client in Android Studio

1. Clone the project repository to your local machine with Android Studio installed:

   ```
   $ git clone https://github.com/bounswe/bounswe2016group11.git
   ```

2. In Android Studio, select **Open Project** and choose folder `bounswe2016group11/coco-android/Coco`.

3. Hit **Run**.

3   REST API Documentation

REST API Documentation can be found in HTML document form in URL `<WEBSITE-ROOT>/docs`.