ECE1779 Assignment 1 - Amarpreet Singh - 1002513764
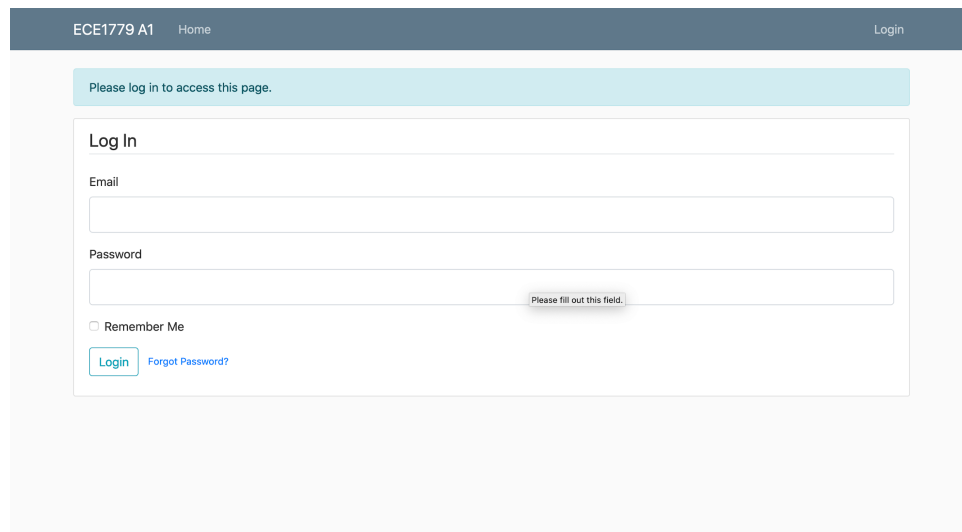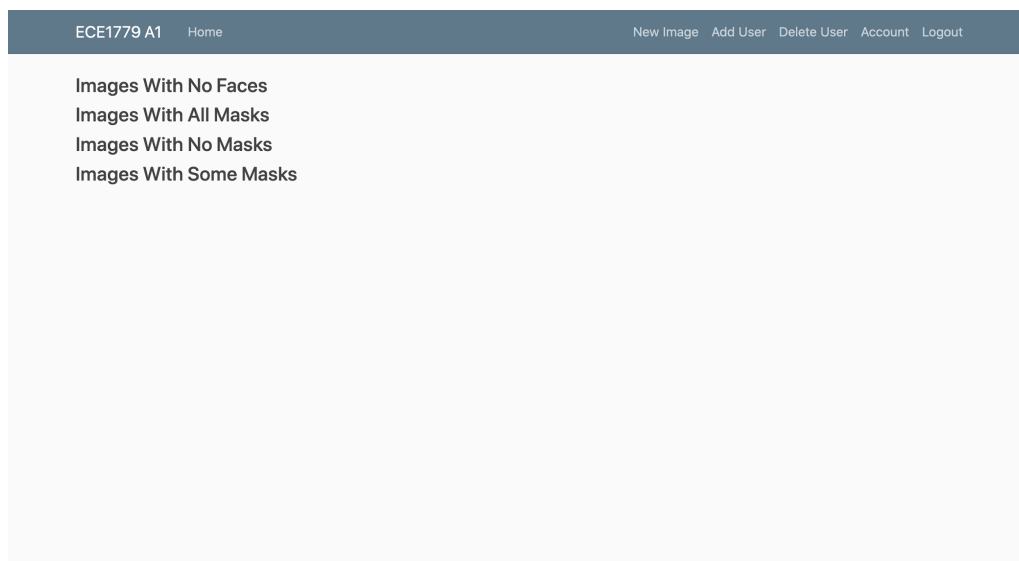
1. How to use the web application?

   a. Start the EC2 instance (which is created on my AWS education account)

   b. Run **~/Desktop/start.sh** to start the nginx (gunicorn) server on port 5000
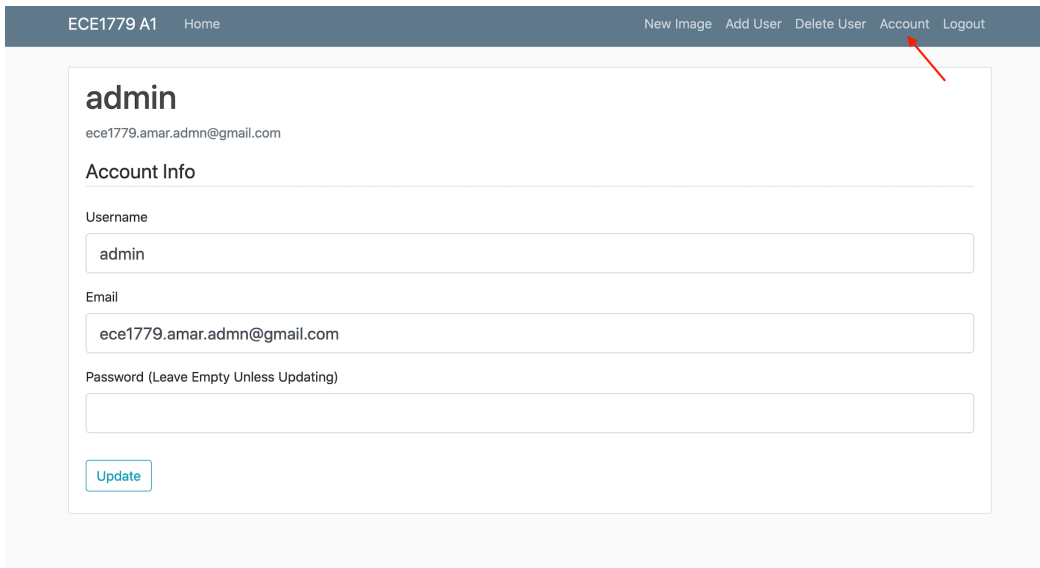
   c. Navigate to the website **<EC2 Instance IP>:5000**

   d. Login as admin
      Email: **ece1779.amar.admn@gmail.com**
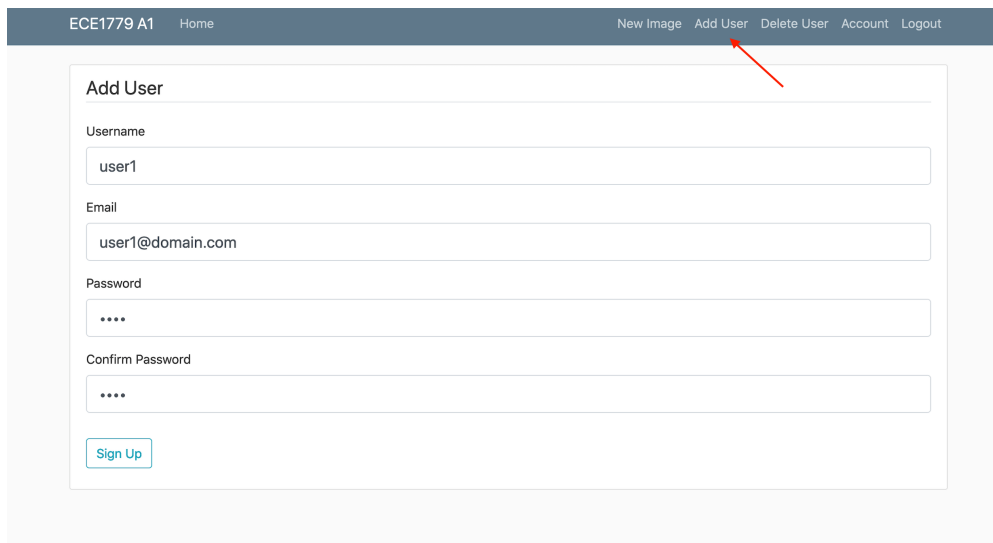   Pass: **pass**

   e. Observe the admin home page

f. Navigate to account page to change username, email or password
    Leaving Password field empty will not update password

g. Add new user
    Password is hashed with salt

h. Logout and login as new (non-admin) user user1
    Notice how the non-admin user cannot add or delete users

Images With No Faces
Images With All Masks
Images With No Masks
Images With Some Masks
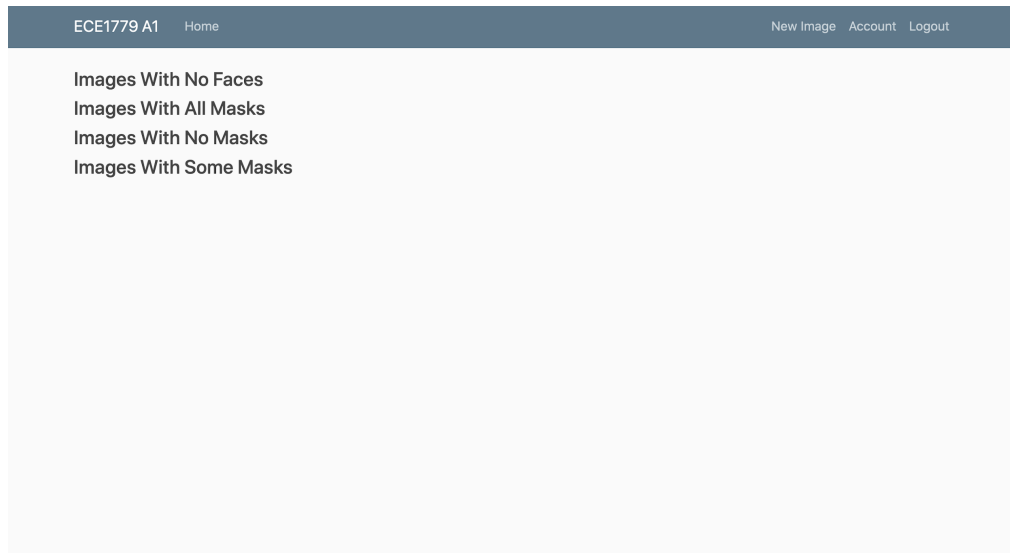
i.   Add new image
    If both image and url are supplied, image will be used
    If image is not supplied but url is, url will be used

ECE1779 A1   Home   New Image Account Logout

New Image

Select Image
Browse...   No file selected.

Image URL (Ignore If Image Selected)

https://miro.medium.com/max/1838/1*DW3-mBLhOOAFlFUVYUkgsQ.png

Must be a valid URL

Update
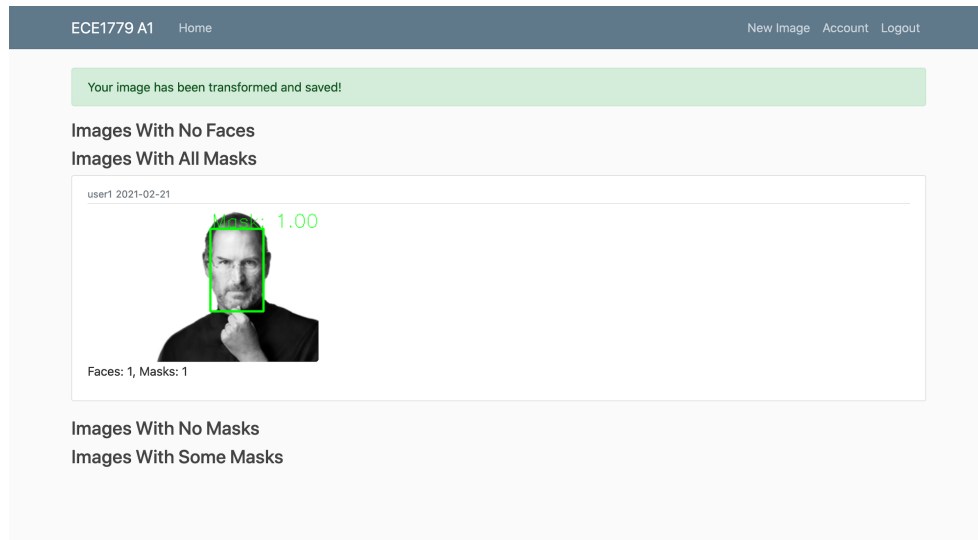
j. Logout of user1 and login as admin to delete user1
    Copy paste the username and email in the form then delete
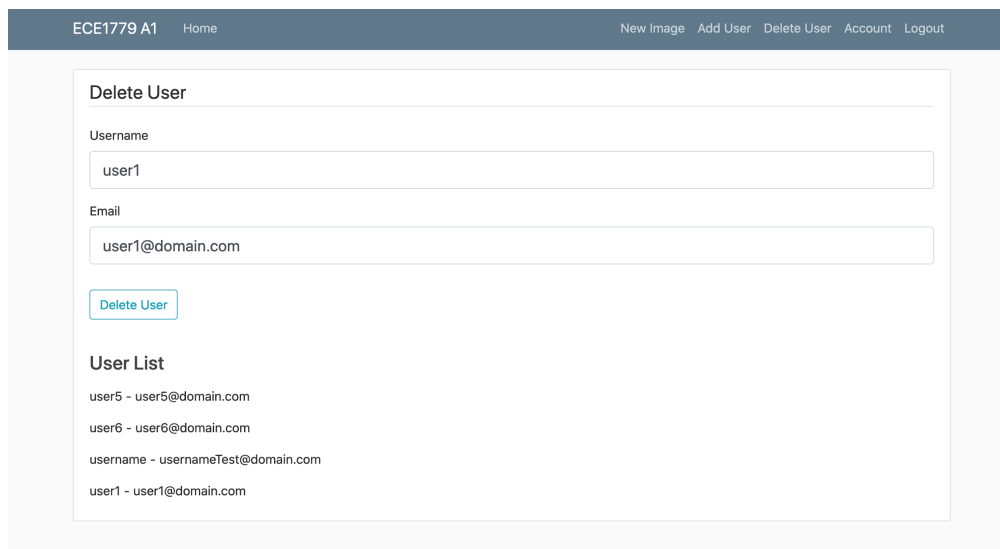
k. Forgot your password, logout and click "Forgot Password?" beside login button
    Enter the email of your account and follow the instructions in your inbox

Reset Password

Email

Request Password Reset

2. Database schema

```
CREATE TABLE user (
        id INTEGER NOT NULL,
        username VARCHAR(20) NOT NULL,
        email VARCHAR(120) NOT NULL,
        password VARCHAR(60) NOT NULL,
        is_admin BOOLEAN NOT NULL,
        PRIMARY KEY (id),
        UNIQUE (username),
        UNIQUE (email),
        CHECK (is_admin IN (0, 1))
);
```

```
CREATE TABLE image (
        id INTEGER NOT NULL,
        date_posted DATETIME NOT NULL,
        faces_count INTEGER NOT NULL,
        masks_count INTEGER NOT NULL,
        no_masks_count INTEGER NOT NULL,
        image_type VARCHAR(60) NOT NULL,
        image_file VARCHAR(20) NOT NULL,
        user_id INTEGER,
        PRIMARY KEY (id),
        FOREIGN KEY(user_id) REFERENCES user (id)
);
```

3. Access user accounts created using the test api

- The username is assigned an email - <username>Test@domain.com
- Use this email alongside with the password in the form to login

4. Key-pair used to ssh into EC2 instance (keypair.pem) is attached. The name of the EC2 instance is **ece1779_assignment1**.