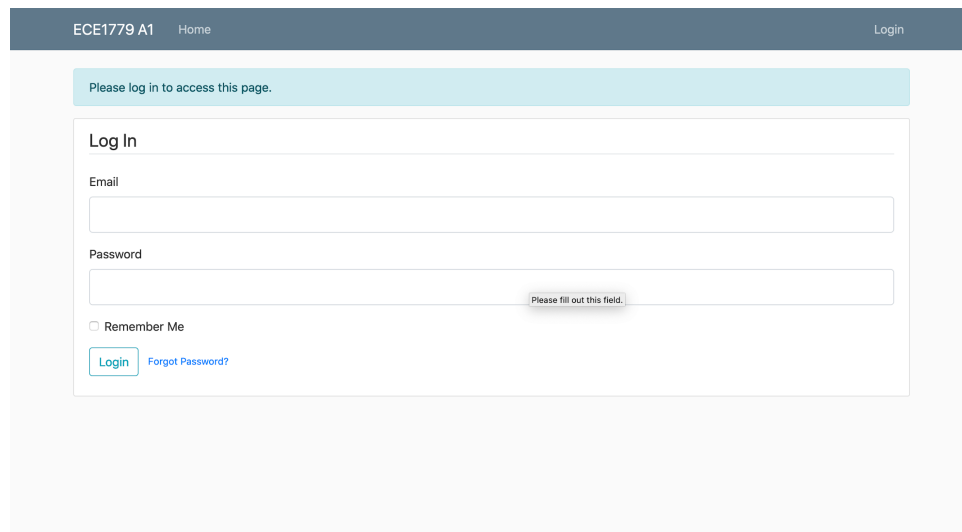


ECE1779 Assignment 1 - Amarpreet Singh - 1002513764

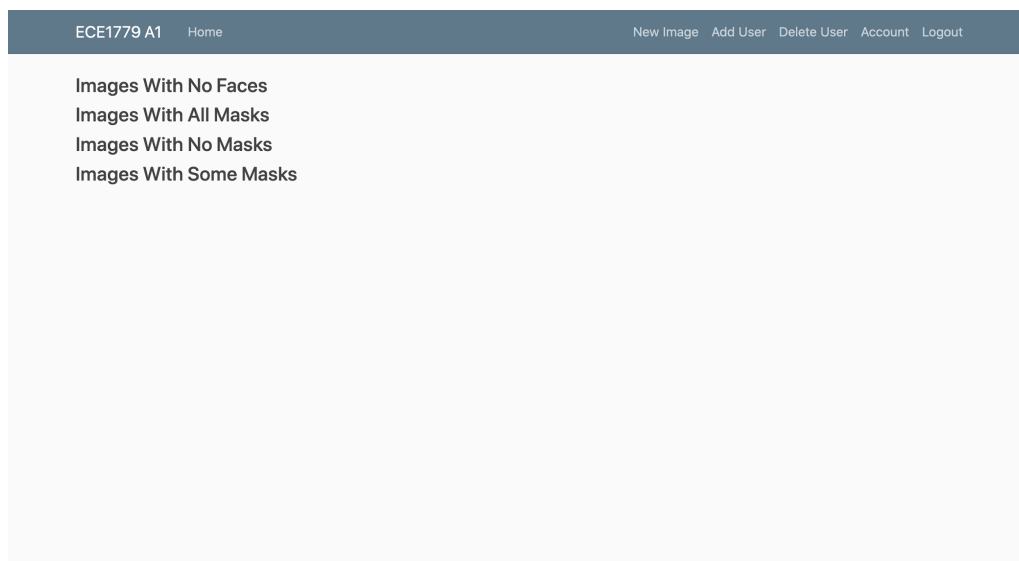
1. How to use the web application?

- 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**



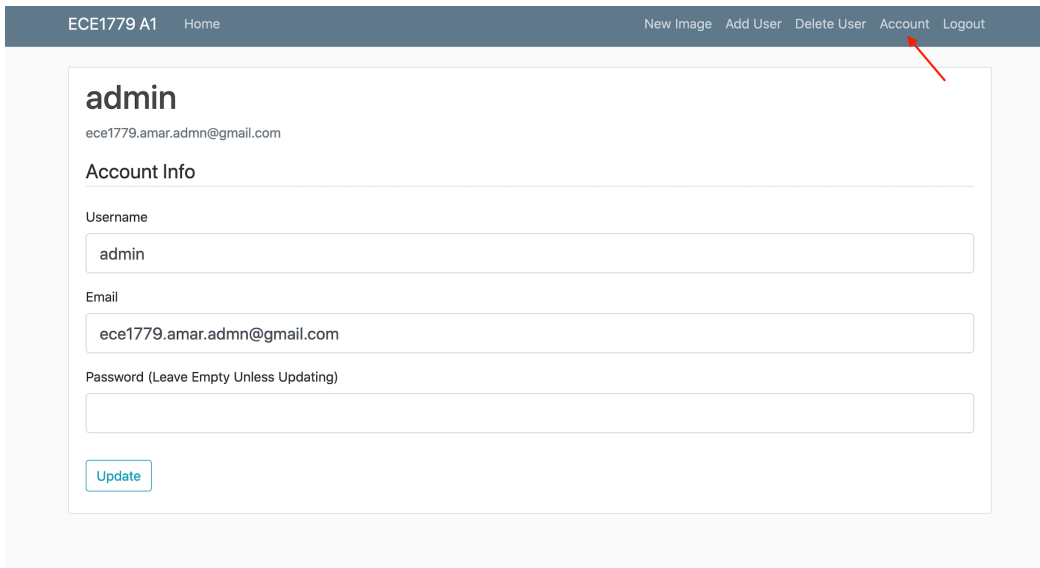
The screenshot shows the login page of a web application. At the top, there is a dark blue header bar with the text "ECE1779 A1" on the left, "Home" in the center, and "Login" on the right. Below the header, there is a light blue banner with the text "Please log in to access this page." In the center, there is a white login form with a title "Log In". It contains two input fields: "Email" and "Password". The "Password" field has a small grey tooltip that says "Please fill out this field." Below the password field, there is a checkbox labeled "Remember Me". At the bottom of the form, there is a blue "Login" button and a blue link "Forgot Password?".

- d. Login as admin
Email: **ece1779.amar.admn@gmail.com**
Pass: **pass**
- e. Observe the admin home page



The screenshot shows the admin home page of the web application. At the top, there is a dark blue header bar with the text "ECE1779 A1" on the left, "Home" in the center, and a series of links on the right: "New Image", "Add User", "Delete User", "Account", and "Logout". Below the header, the main content area is white and contains a list of four items: "Images With No Faces", "Images With All Masks", "Images With No Masks", and "Images With Some Masks".

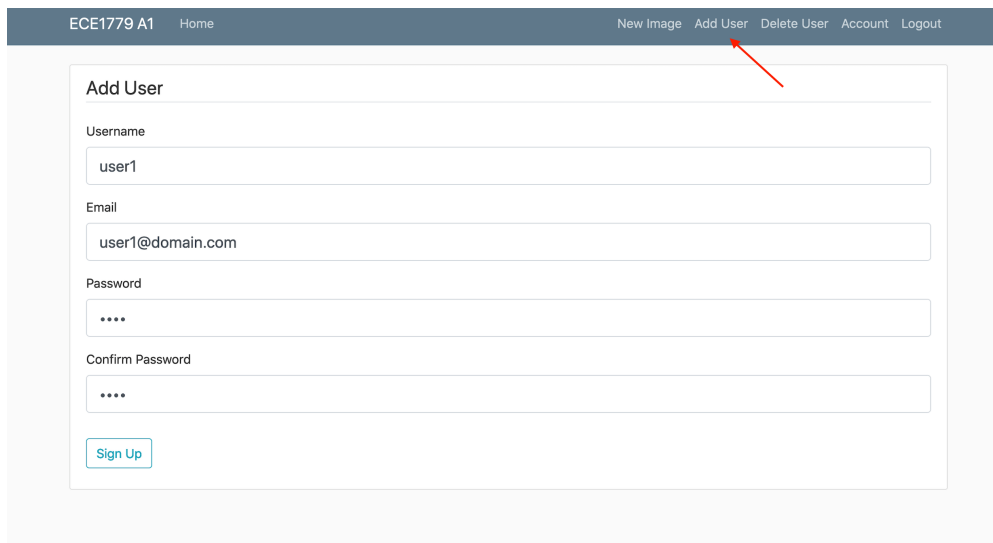
- f. Navigate to account page to change username, email or password
Leaving Password field empty will not update password



The screenshot shows the 'Account' page for a user named 'admin'. The page has a dark blue header with the text 'ECE1779 A1' and 'Home' on the left, and navigation links 'New Image', 'Add User', 'Delete User', 'Account', and 'Logout' on the right. A red arrow points to the 'Account' link. The main content area is white and contains the following information:

- admin**
ece1779.amar.admn@gmail.com
- Account Info**
- Username**
admin
- Email**
ece1779.amar.admn@gmail.com
- Password (Leave Empty Unless Updating)**
[Empty password field]
- Update** button

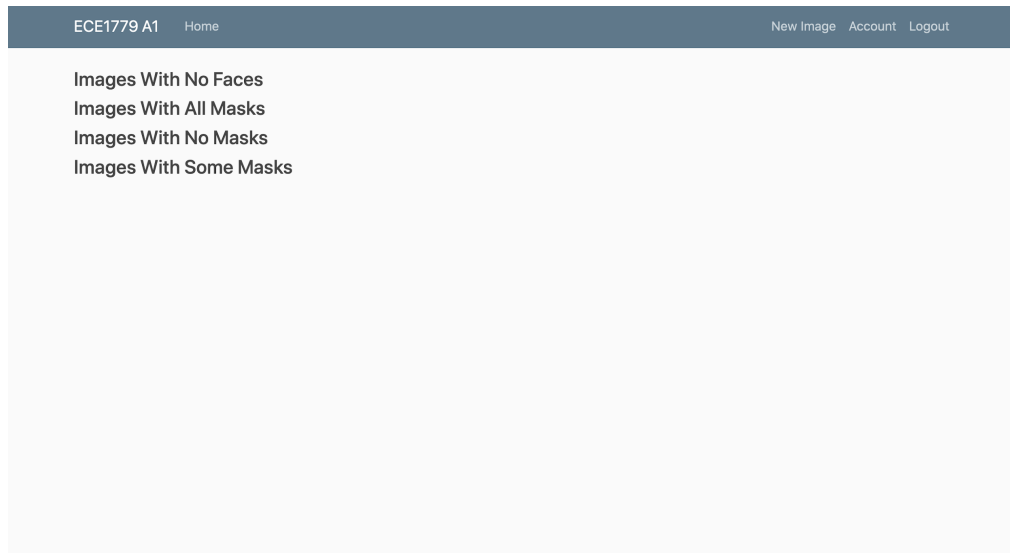
- g. Add new user
Password is hashed with salt



The screenshot shows the 'Add User' page. The page has a dark blue header with the text 'ECE1779 A1' and 'Home' on the left, and navigation links 'New Image', 'Add User', 'Delete User', 'Account', and 'Logout' on the right. A red arrow points to the 'Add User' link. The main content area is white and contains the following information:

- Add User**
- Username**
user1
- Email**
user1@domain.com
- Password**
[Masked password field]
- Confirm Password**
[Masked password field]
- Sign Up** button

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

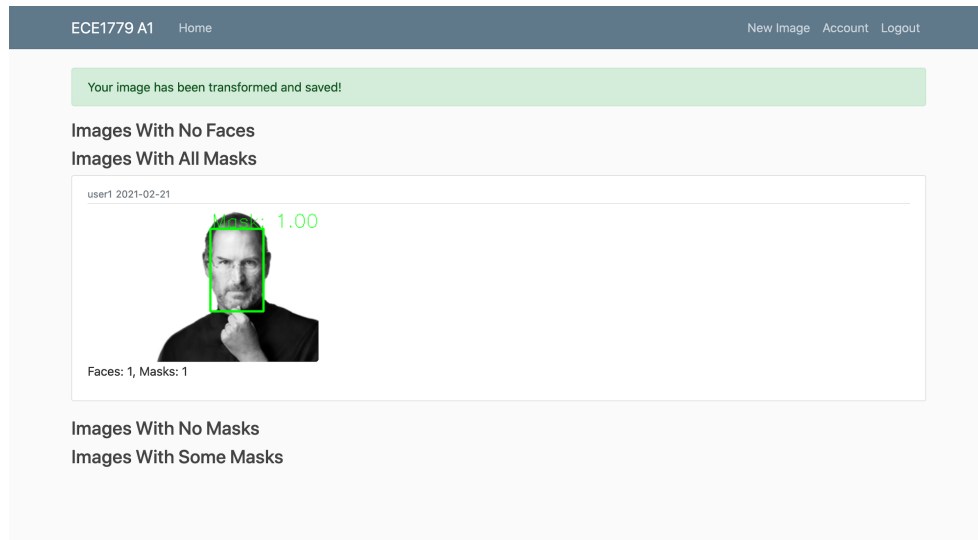


i. Add new image

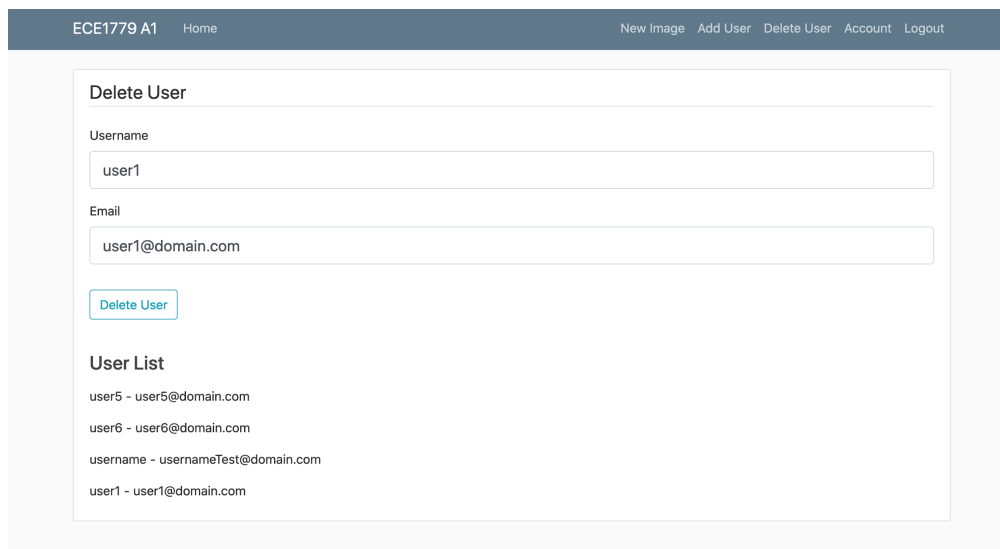
If both image and url are supplied, image will be used

If image is not supplied but url is, url will be used

The screenshot shows the "New Image" form in the web application. The header bar is the same as in the previous screenshot. A red arrow points to the "New Image" link in the header. The form itself is a white box with a light gray border. It has a title "New Image" at the top. Below the title is a section "Select Image" with a "Browse..." button and the text "No file selected.". Below that is a section "Image URL (Ignore If Image Selected)" with a text input field containing the URL "https://miro.medium.com/max/1838/1*DW3-mBLhOOAFIFUVYUkgsQ.png". Below the input field is a red error message "Must be a valid URL". At the bottom of the form is an "Update" button.



- 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

ECE1779 A1 Home Login

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**.