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Soft. Dev. pd08  
P05: Fin

### nentindoe Draw

A website where users will be able to log in using their emails to create images, from scratch or drawing on existing images, and post them publicly. Users will be able draw on a canvas using a variety of “tools” and colors, users will be able to import images they wish to edit onto the web app, draw on it, and save or upload the new image. Users will be able to create groups to privately share images amongst friends.

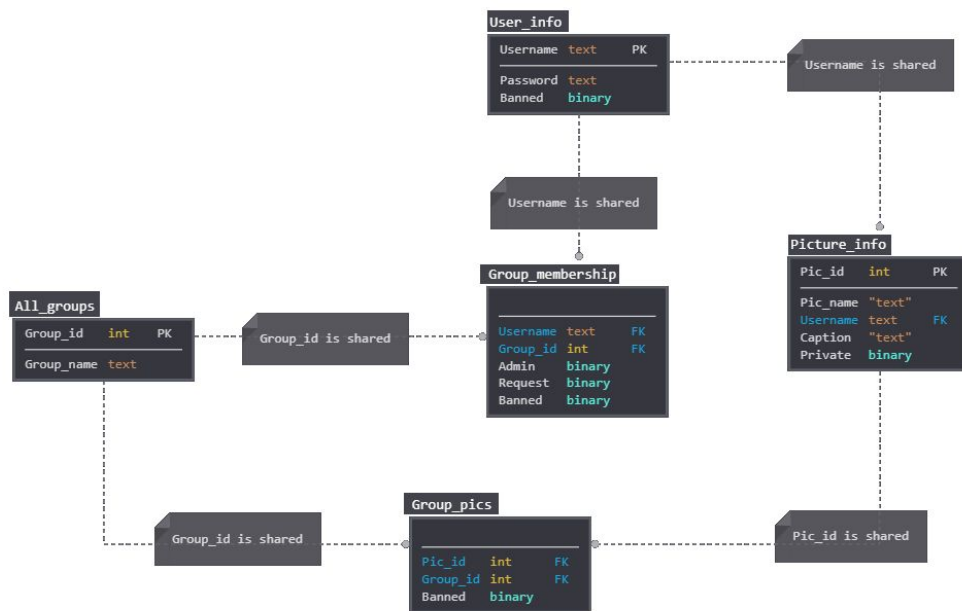
### Features:

- Users can login with their stuy.edu emails through OAuth2
- A canvas for users to draw on with the mouse
  - Users can create an image from scratch or upload an image to edit
  - Multiple tools that change the size and color of the strokes on the canvas
- Users will be able to post images they create to the public or to a group(more on that)
- Users will be able to create groups to share images
  - Only members of the group will be able to see the images uploaded there
- Users will be able to rate images
- Users will be able to sort images in the gallery based on rating, name, and timestamp (stretch goal)

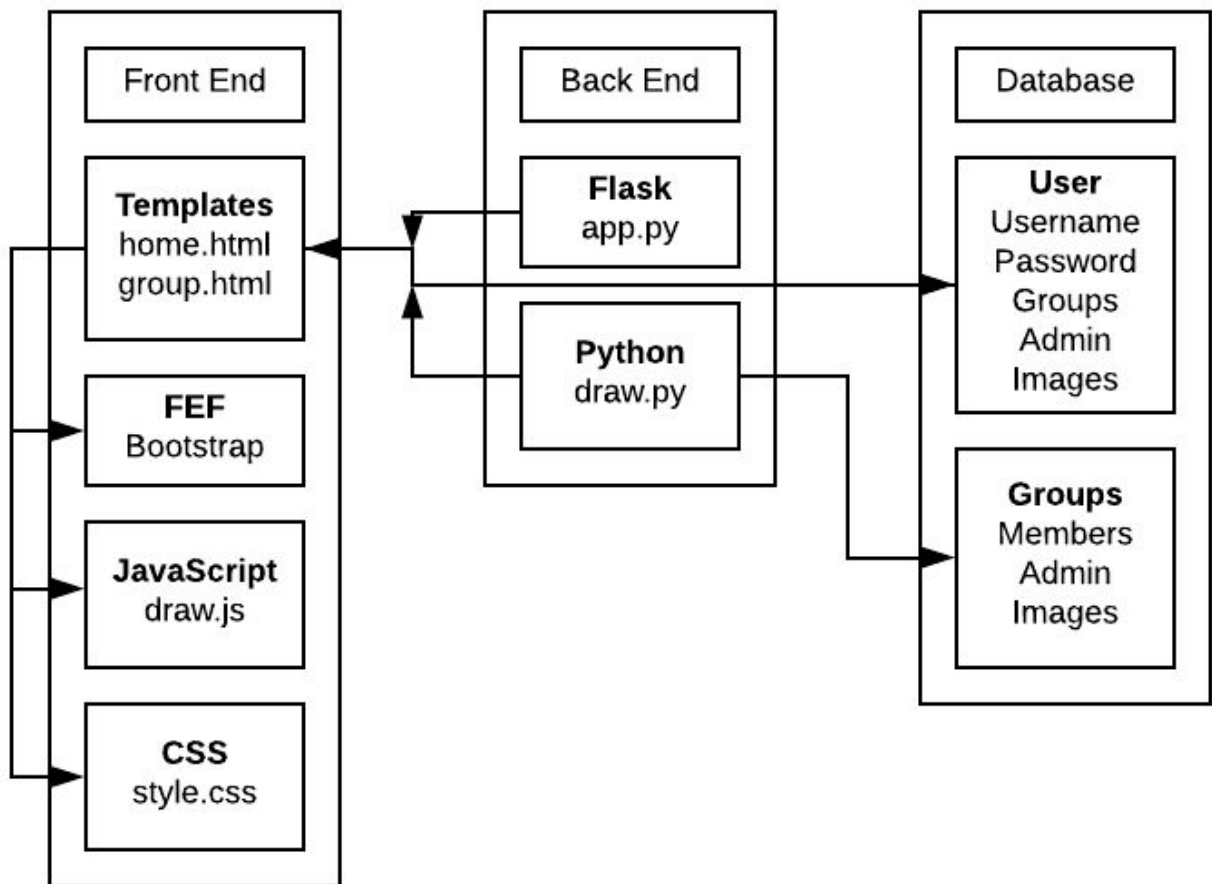
### Components:

- Flask for running the website
- Canvas to draw on
- Bootstrap for formatting. We have chosen Bootstrap over Foundation because we all know it better
- CSS for additional formatting
- Python for backend
- SQLite databases for data storage, as seen below
- Jinja for templating
- OAuth2 for logging in

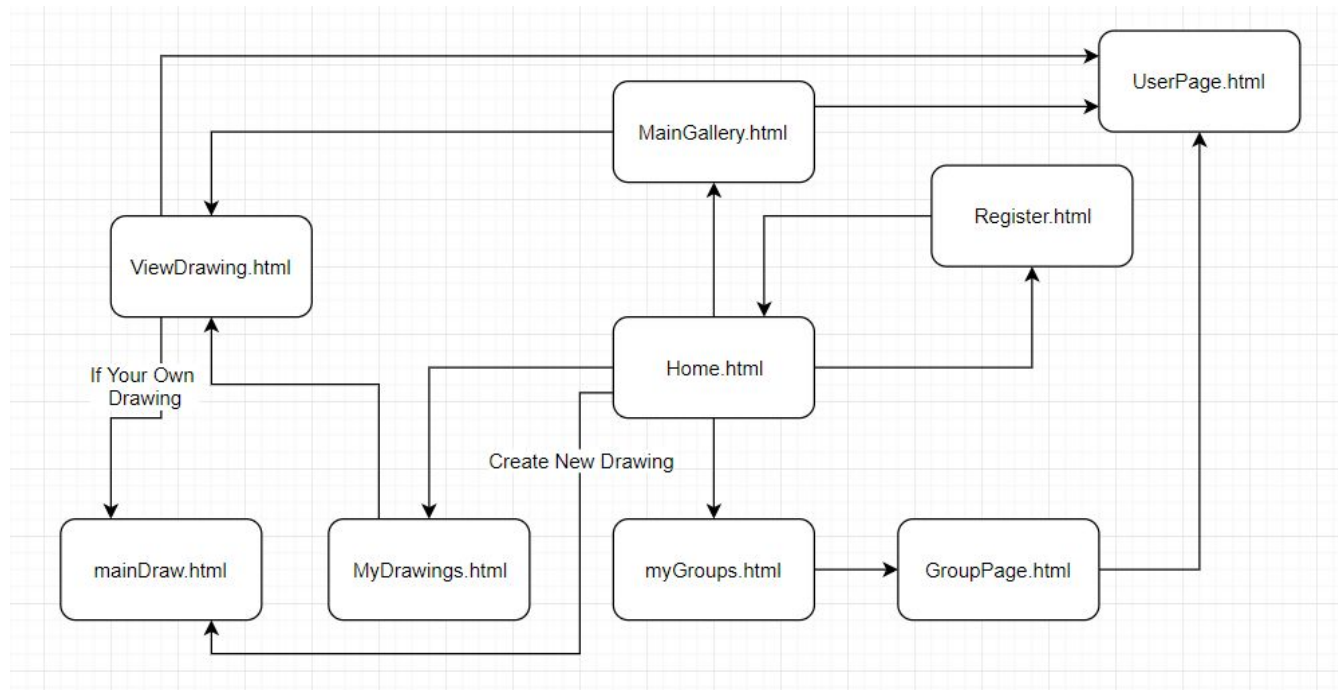
## Database Schema



## Component Map:



## Site Map:



## To-DO:

1. Create Repo
2. Create basic Flask App to start (Mohtasim) 5/13
3. Write all html pages (Zane/Mohtasim) 5/14
  - a. Format using bootstrap and css(Zane) 5/16
  - b. Implement Jinja where necessary(Mohtasim) 5/16
4. Make a canvas that users can use as described (Zane) 5/17
  - a. Create a menu to select different stroke sizes, colors, etc. 5/19
5. Create a database for storing user info (Yin On) 5/19
  - a. Write functions for communication between db and python app (YinOn/Vincent) 5/19 - 23
6. Implement OAuth2 (YinOn/Vincent) 5/20 - 23
7. Test (Everyone)
8. Debug (Everyone)
9. Hope it works(Everyone)