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Graphics Gallery Final Project
Design Doc

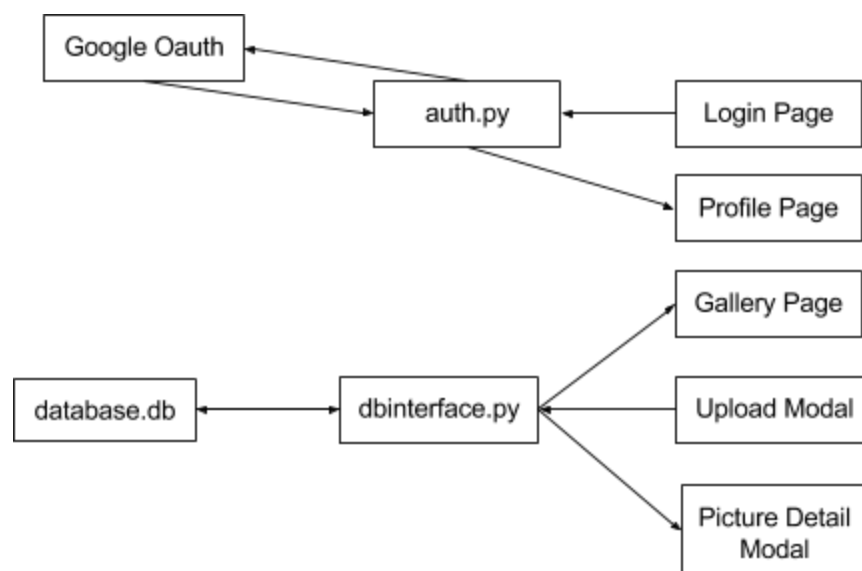
Summary:

Our project is a fully functional graphics gallery website portal, created for Mr. DW's Computer Graphics class. Its main functionalities will include:

- Account creation for each student, using Google authentication with our existing stuy.edu emails to verify the identity of each student
- Mr. DW will have an admin mode that will allow him to:
 - Create new assignments on the website as his semester progresses
 - Delete posts from students
 - Archive galleries from past years for easy viewing
 - ...As well as any student abilities listed below
- Students will be able to:
 - Upload images for each assignment, and add a caption and relating code if they wish
 - Select galleries and view all students' posts
 - Upvote other students' images
 - See and manage their own profile, and see other students' profiles
 - Delete their own posts

Task Allocation:

- Constantine - MongoDB setup/management/utils
- Sebastian - Oauth/APIs
- Nala - Flask App
- Elias - Frontend



<url>/gallery/<assignmentname>

Gallery

shows small icons of every user's submission as well as one selected image in full size

users do not need to be logged in to view

homepage redirects to most recent assignment's page

there is also a navigation bar at the top of all the assignment names as links

on the navigation bar is an icon only available to admins(Mr. DW) that can be used to add an assignment, it will pop up a form modal with assignment name

selected image is displayed in full as well as its title, creator (link to profile), upvotes/likes, and script. Clicking the upvote button while not logged in redirects to login page

below the navigation is a submit icon, clicking it displays a modal with a form to submit an image and script into that gallery, if they click it while not logged in they are redirected to login

<url>/profile/<user>

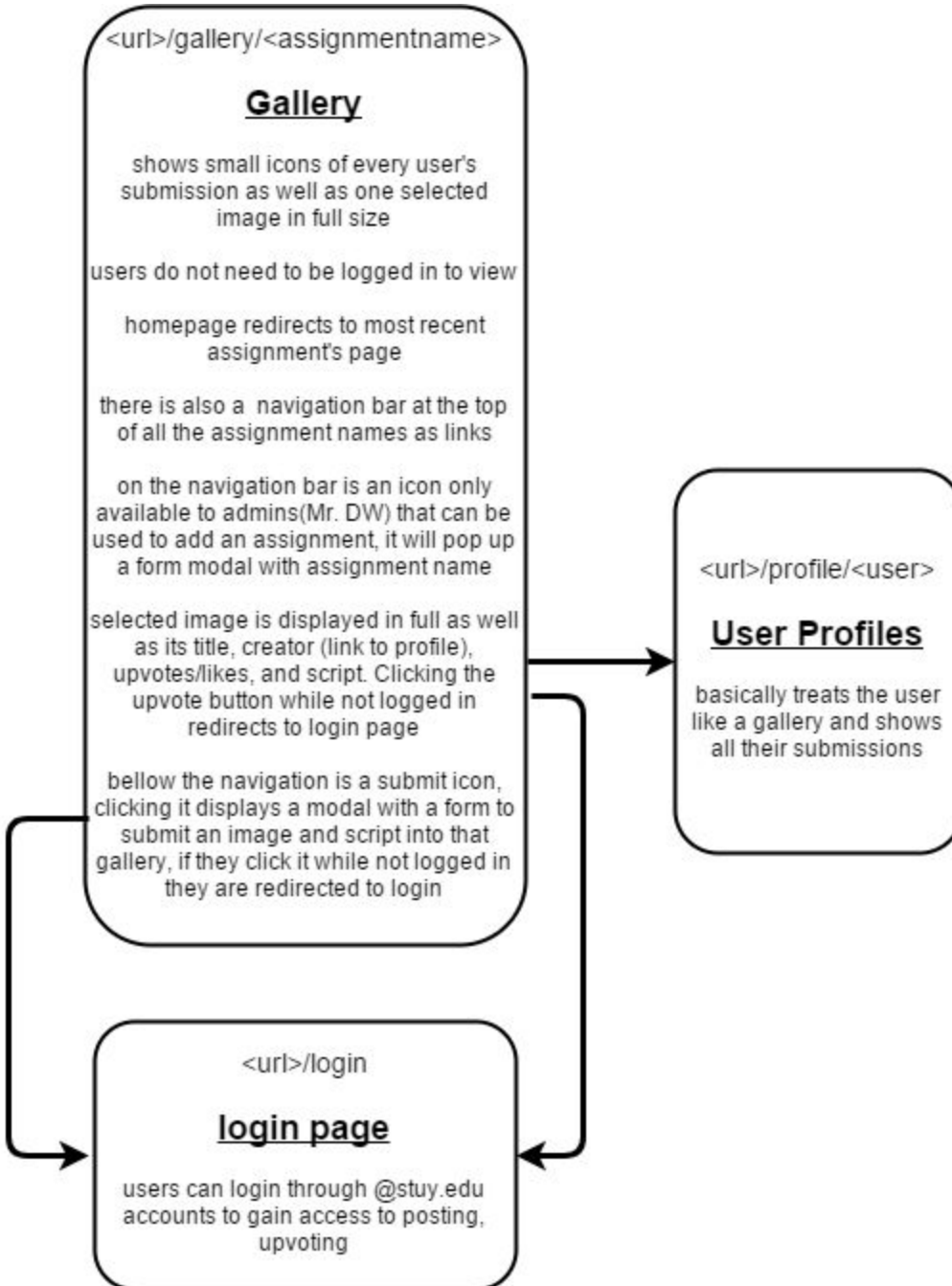
User Profiles

basically treats the user like a gallery and shows all their submissions

<url>/login

login page

users can login through @stuy.edu accounts to gain access to posting, upvoting



Database Schema:

Database:

- 2017 Graphics Gallery
- 2018 Graphics Gallery
- ...

Collections:

- StudentInfo
- Assignment 1
- Assignment 2
- ...

Documents/Format in each Assignment Collection:

```
{  _id: String
  title: String
  studentID: String
  imagePath: String
  upvotes: Int
  script: String
}
```

Documents/Format in StudentInfo Collection:

```
{  _id: String
  student: String
  password: String
  studentID: String
  year: Int
}
```

Code Style

- Use tabs
- Use camelcase
- Use common sense variable names/ no ambiguous terms
- Comment at head of file describing file's purpose
- Comment when introducing new function describing what it takes in and what it returns
- No super long functions, these should be modularized
- GLOBAL VARIABLES ARE COOL

Timeline

By Sunday May 14: Get basic front end home page working

By Sunday May 21: Get OAuth working, have basic architecture for database

By Sunday May 28: Finish basic functionality of web gallery

By Sunday June 4: Get possible navbar working

By Sunday June 11: Add different year/ archive functionality