

#### basic functionality

- selecting an assignment
- uploading images
- captioning images
- viewing images from everyone

#### additional ideas

- testing scripts with a finished project for that assignment
- profiles for people
- different names and titles
- Displaying
  - flow layout?
  - small icons in bar that expand when you click them
- see code button under each pictures
  - Text highlighting
- likes/upvotes and comments
- individual link for each submission to show what you did
- cover flow gallery system
- admin system for DW to regulate submissions/comments
- ability to delete posts
- bootstrap

#### DW ideas

- dw can add an assignment
- dw can delete any image
- google authentication w/ stuy.edu
- dw can archive images/different galleries for different years
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Graphics Gallery Final Project  
Design Doc

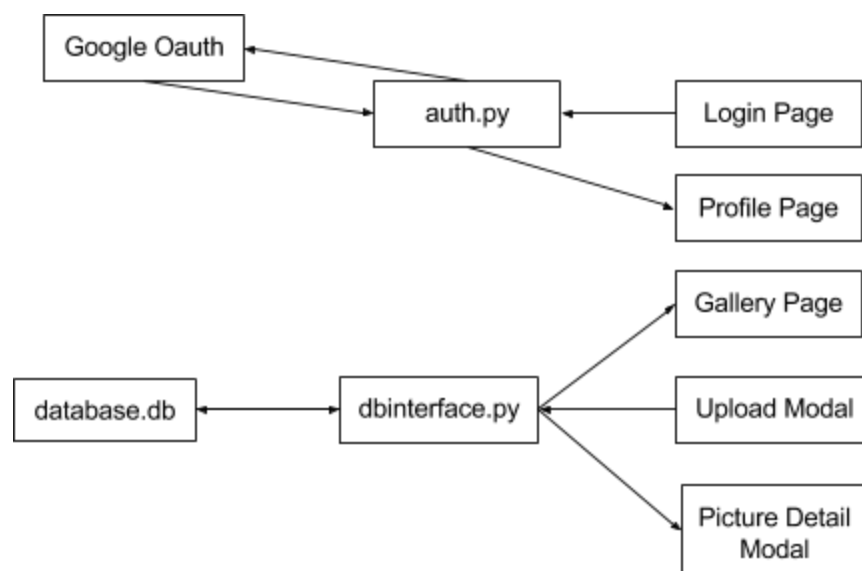
Summary:

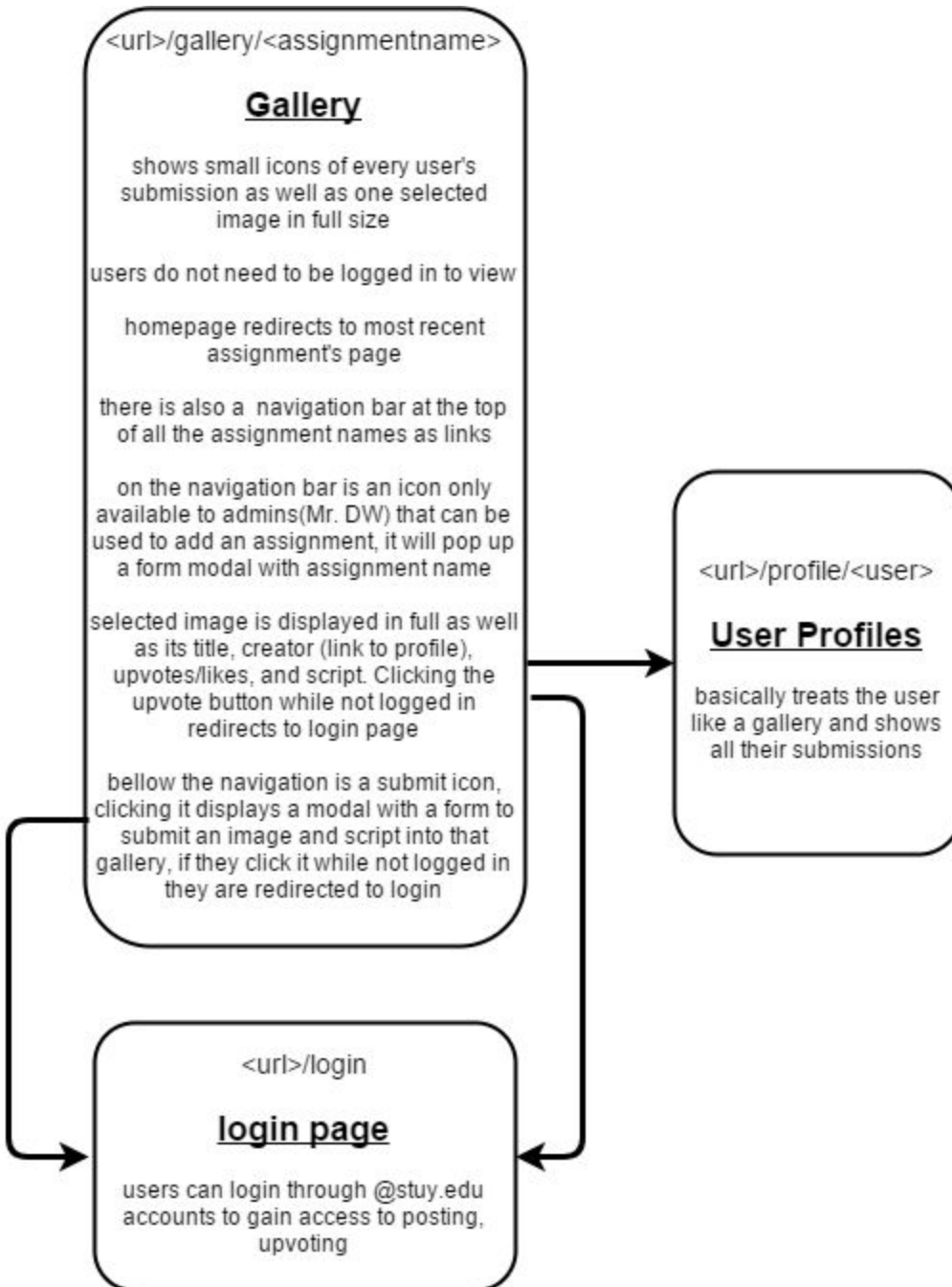
Our project is a fully functional graphics gallery website portal, created for Mr. DW's Computer Graphics class. Its main functionalities will include:

- 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/utills
- Sebastian - Oauth/APIs
- Nala - Flask App
- Elias - Frontend





### 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