

P04 – Le Fin

TileStyle: Tami Takada [PM] (Gin), Emma Buller (Humphrey), Liesel Wong (King Hagrid), Shyne Choi (Bun bun)

Proposed Due Date: 06/22/2022

Time Spent: too much

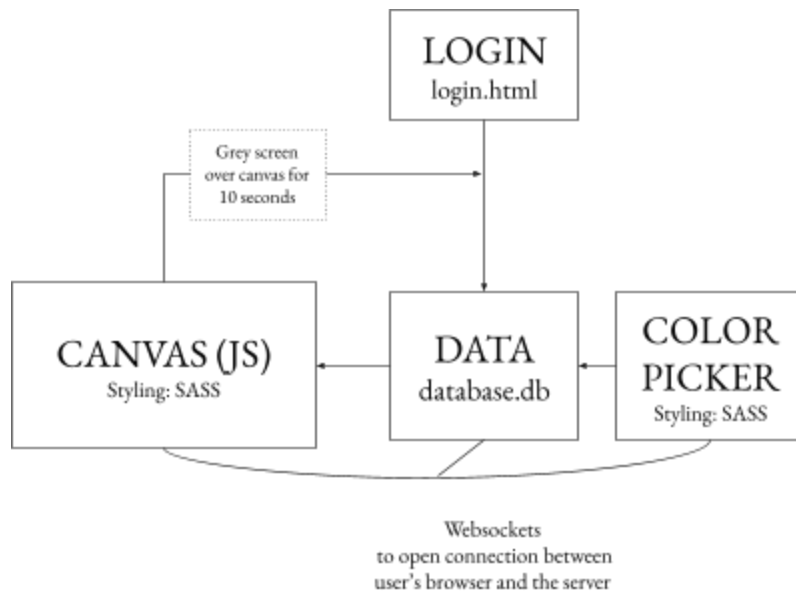
## **My Space (not the social media platform)**

### **Project Description:**

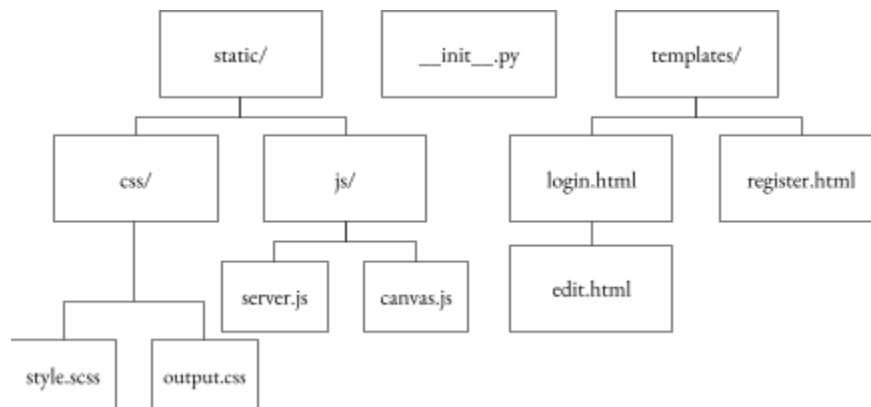
Flask app replica of [r/place](#) but with a 10 second timer (for easier demo). It's a place for users to work together or against each other on a collaborative art canvas where. There exists a 10 second timer for limiting a single user or group of users from dominating the whole canvas, allowing everyone to be a part of the artwork.

### **Program Components:**

- Canvas
  - Displays color data stored in database
- Color picker
  - Limited selection of colors (~15-20 colors)
  - Use Sass for the color selection
    - Demo (Sookiemonster)
  - Reference (Mozilla Web Docs page that has example of a color picker)
  - Can't use during 10 second pause period
    - Disable clicking on canvas
- Websockets (Mozilla Web Doc on Websockets)
  - Lets people see changes on the canvas in real time
  - Multiple people can paint on the canvas
  - See demo (Made by Yuqing Wu and Annabel Zhang)
  - Official Docs
- Login
  - Each user has a 10 second pause on painting on the canvas
  - Login info stored in users database
  - Contribution to canvas not accessible afterwards



### Component Map:



### Data Organization:

- Use SQL
- 2 tables
  - 1 for user information (user/pass/time last contributed)
    - Typical routing: User/Password error, logging in if user matches password, unique usernames, etc.
  - 1 for storing canvas information (color and pixel coordinates)
    - Add row when a pixel is first interacted with
    - Update color info if pixel coordinates exist in table already

*Users Table*

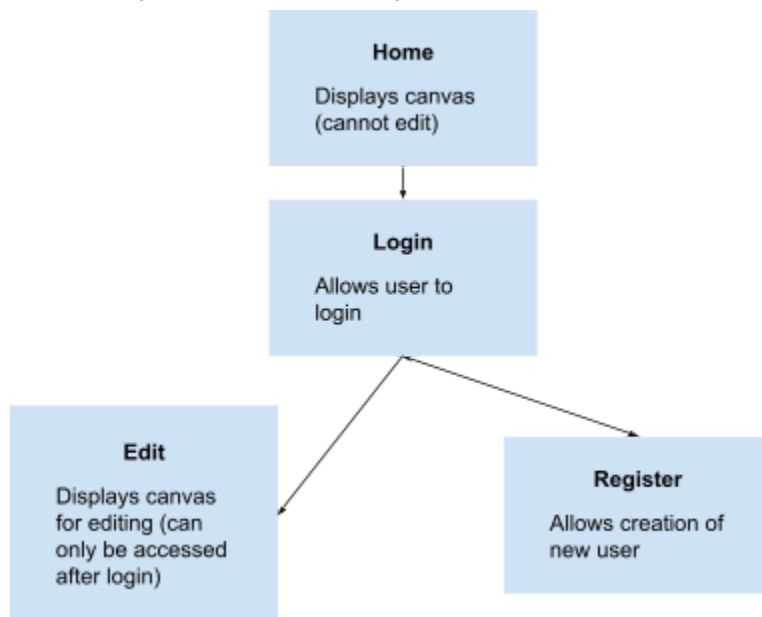
ID [primary int]	Username ["string"]	Password ["string"]	Last contribution date [datetime] YYYY-MM-DD HH:MM:SS format
0	"User"	"securepassword"	2022-05-24 08:34:00

*Canvas Table*

ID [primary int]	X-Pixel Coordinate [int]	Y-Pixel Coordinate [int]	Color ["string"]
0	2	3	"#FAD4C0"

**Sitemap:**

- / - View canvas
- /edit - Edit canvas (accessible only if logged in)
- /login - User login page
- /register - Create new login information



**Roles/Tasks:**

Tami: PM, Database, Websockets, Droplet

Liesel: Routing, Websockets

Shyne: Sass/CSS, JS, Websockets

Emma: Sass/CSS, JS, Websockets, Droplet

**Reach Goals:**

- Color dropper
- Freely choosing colors
- Loading screen with progress bar for 10 second timer