P04 – Le Fin

TilesStyle: 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

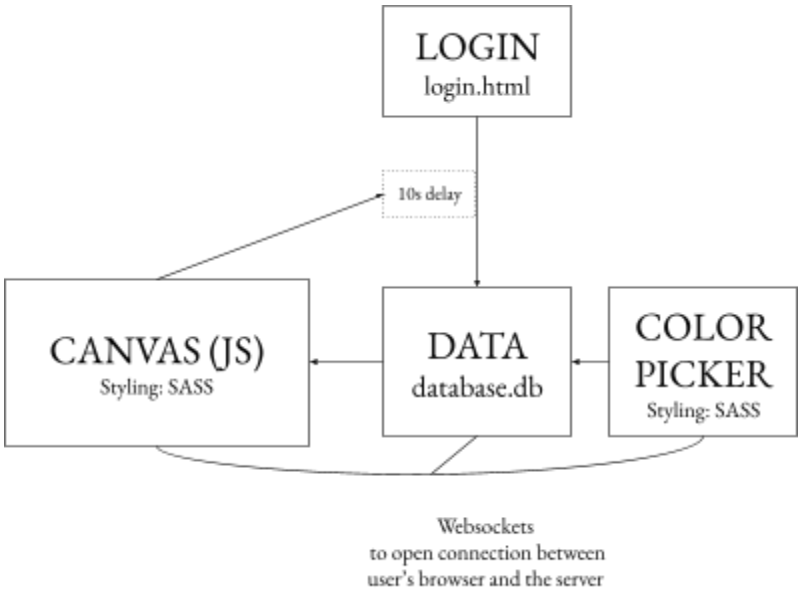
My Space (not the social media platform)

Project Description:

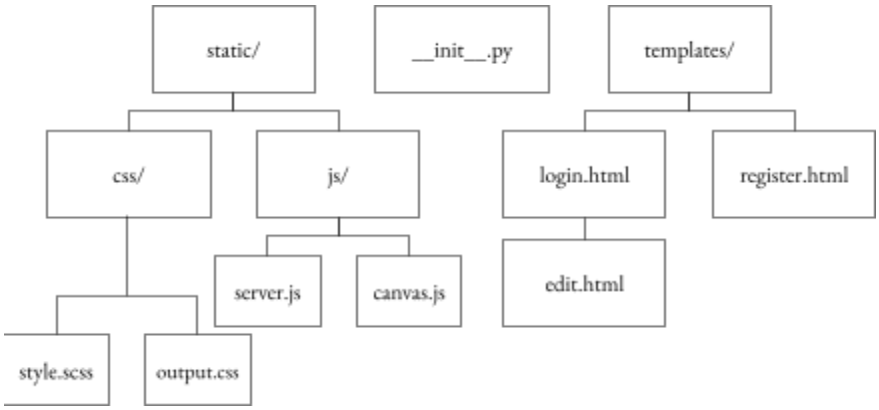
Flask app replica of r/place but with a 10 second timer (for easier demo)

Program Components:

- Canvas
    - Displays color data stored in database
- Color picker
    - 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 either on color picker or 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



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

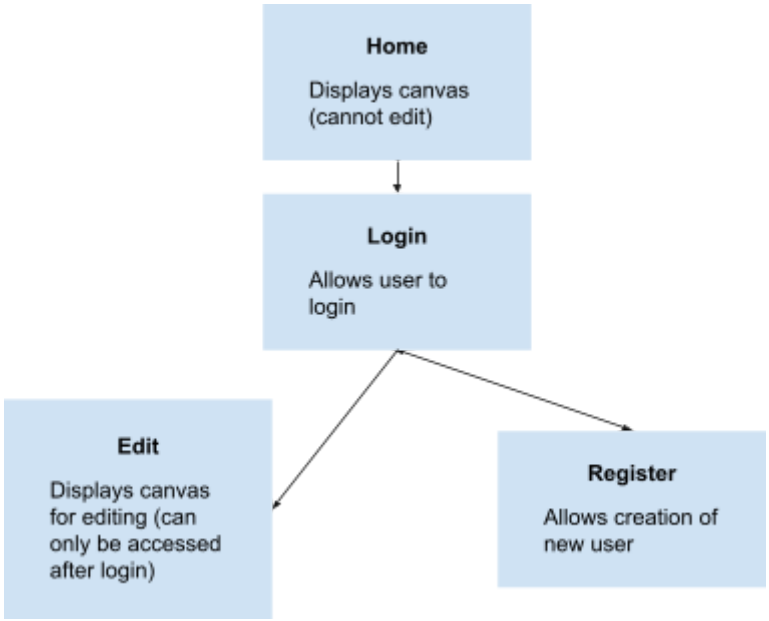
ID [primary int]	**Username [“string”]**	**Password [“string”]**	**Last contribution date [datetime]** YYYY-MM-DD HH:MM:SS format
0	“User”	“securepassword”	2022-05-24 08:34:00

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