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SoftDev Pd 2
P05: Design Doc
2023-5-31

Explanation:

Our project is a collection of digital notepads. It will contain virtual post-its with customizable components. Each user will have a personal account with the ability to create custom notepads.

1. Freeform movement of post-its
2. Each user will have a collection of notepads, each one with a unique set of post-its
3. Each post-it will be constrained to a certain size
4. Images and texts can be contained in notepads

Bootstrap: We all used Bootstrap in our last project. We are the most experienced and familiar with this FEF; therefore, we have decided to use Bootstrap. Bootstrap has better documentation and is very easy to work with.

Database Organization

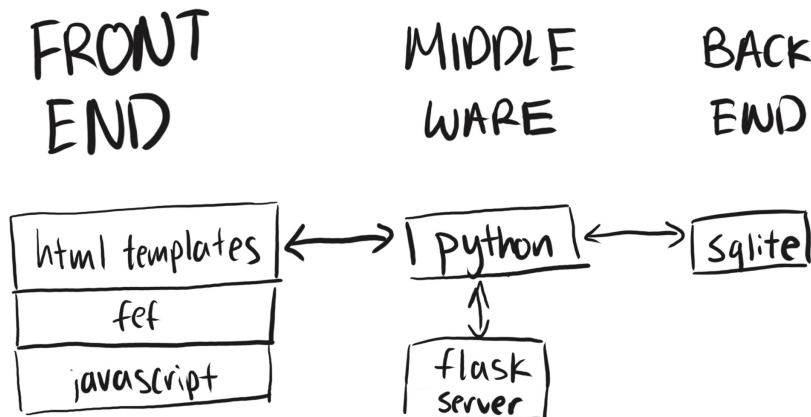
- Table for all users
 - Contains: unique_id, username, password
- Table for listing all notepads
 - Contains: unique_id(for each notepad), user_id, notepad_name
- Separate table for each notepad containing all of its components
 - Each table should be named after the unique_id of the notepad
 - Contains: unique_id(for each post-it), user_id, type, data, coords
 - type, data
 - post-it, "joseph sucks"
 - image, "<url>"
 - drawing, "<svg paths>" or "<pixel array>"
 - +More if we come up with them + have time

Stretch Goals

1. Sketching images
2. Collaborative notepad
3. Deleting data

4. Public/private notepads
 - a. Viewing other user's notepads
5. Notepad themes (font-families, background-images, etc.)
6. Widgets (calender, etc.)

Component Map + Explanation:

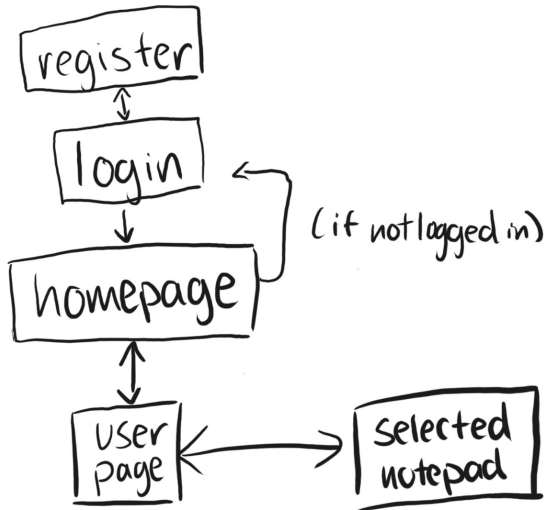


1. HTML Templates
 - a. homepage.html
 - i. Redirects to login.html if user is not logged in
 - b. user.html
 - i. Will display the stats of the user
 - c. login.html
 - d. register.html
 - e. notepad.html
 - i. Will display a digital notepad
2. JavaScript
 - a. canvas.js
 - i. Will draw the notepad
 - ii. Receives database information from python file using xmlhttp requests
3. Python
 - a. db.py
 - i. Manipulates database information
 - b. __init__.py
 - i. Runs Flask components
 - c. stuff.py
 - i. All other Python functions that don't relate to the database and Flask
4. Front End Framework
 - a. Will beautify the website
5. Flask Server
 - a. Flask will render html templates onto the browser

6. SQLITE

a. data.db

Site Map:



1. Register page
 - a. User inputs new unique username and creates a password
2. Login page
 - a. User inputs username and password to enter website
3. Homepage
 - a. About us page
 - b. Explain purpose of the website
4. User page
 - a. Contain a list of all notepads of the user
 - b. User can select a notepad and will be redirected to that notepad
5. Selected notepad
 - a. Each notepad contains data such as post-its, drawings, etc.
 - b. User can add more to the notepad and move components around
 - c. Control panel for user to edit notepad
 - i. Move tool, insert post-it tool, insert image tool, drawing tool, delete tool

Individual Pages

navbar USER



user

notepad 1

notepad 2

notepad 3

navbar HOME

about us



our purpose



navbar NOTEPAD #

why women rule

- prettier
- smarter
- compassionate
- clean

