Team lame (Amelia Chin, Ethan Shenker, Liam Kronman, Maddy Andersen)
SoftDev — Rona Ed.
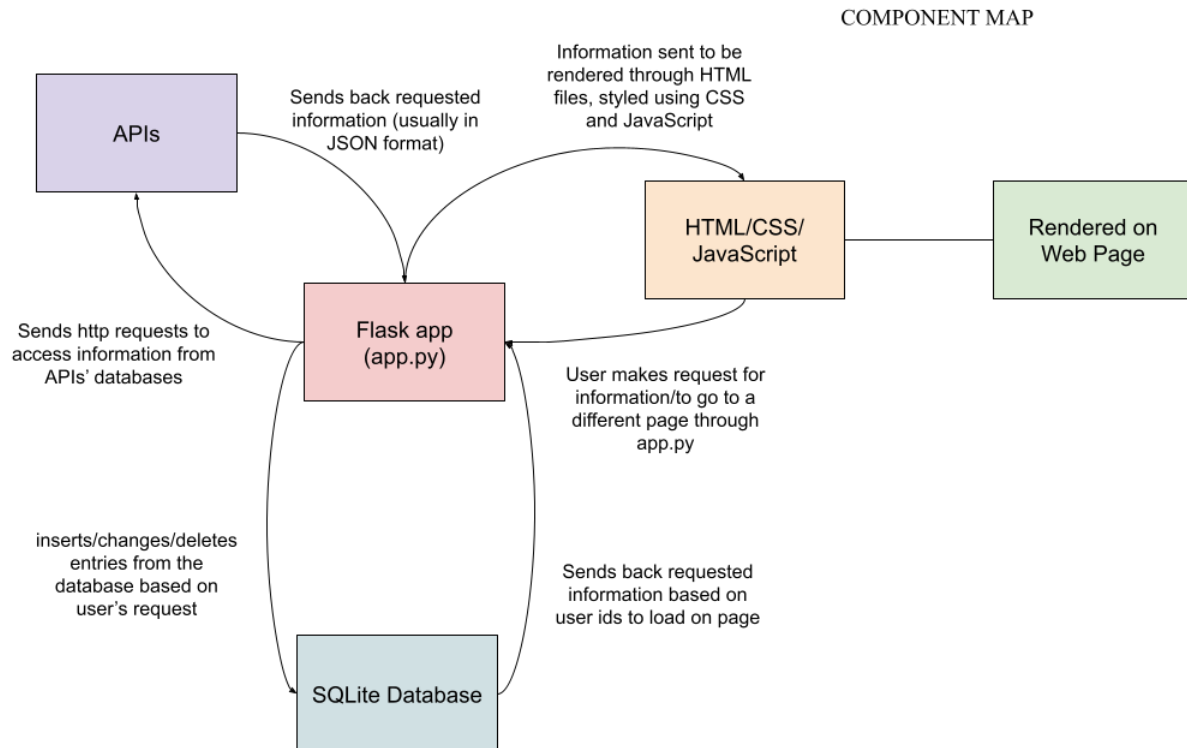P3 — DESIGN DOCUMENT
2021-04-29

Program Components and Role of Each
- **SQLite Database**: holds our data and information so we can access it to display on the site
    - keep track of users and user content
    - to-do list content/entries
- **Flask**: the framework for our web-based app, connecting and managing the routes and functions
- **Python**: works with Flask, directs our functions and renders templates
    - Pulls information from SQLite and sends to Flask app to be displayed on page
- **HTML/CSS/Foundation**: styling for our front-end pages
- **JavaScript**: allows users to manipulate/interact with the webpage in real-time
- **RESTful APIs**: retrieve data from external databases and applications, utilize function calls defined within those applications, transmits data back after receiving an http(s) request
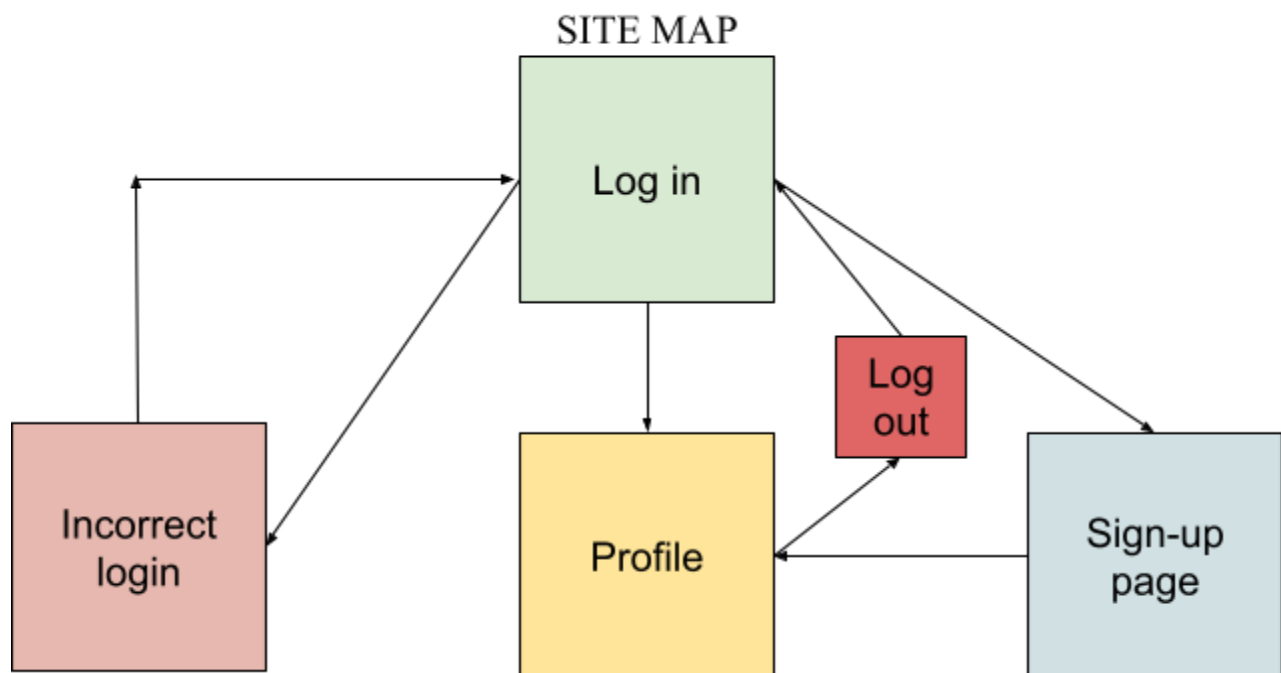

COMPONENT MAP

Database Tables

User table

user_id (text, primary key)	username (text, unique)	password (text)
(uuid, ex: 890c238f-e34b-478f-880c-b4f05dfd9d10)	user	123pass

To-Do List table

user_id (text, primary key)	checkbox (binary)	item title (text)	item body (description)
(uuid, ex: 890c238f-e34b-478f-880c-b4f05dfd9d10)	Done? Or not ☐	calculus homework	pages 3-4, due tomorrow, notes, etc.

SITE MAP

Task Breakdown
- <u>Login/Logout</u> -- *Ethan*
    - Registering users (setting up database of users and passwords)
    - Set up login page, sign up page, and incorrect login page
    - Check login info with SQLite table of users and passwords
    - Link login page with incorrect login/error page
    - Link login page with sign-up page

- Link login and sign up pages with profile
- Link profile with logout page, link logout page with login page
- Add session to keep track of the logged in user
- <u>Profile/Home Page</u>
    - Create personalized greeting with user's name, ex: "Hello, <person name>" -- *Liam*
    - Show time and date using JavaScript or Python datetime -- *Liam*
    - Display motivational quote (Advice Slip API) -- *Amelia*
    - Display holiday (Public Holiday API) -- *Amelia*
    - Display today's weather (Open Weather API) -- *Liam*
    - Display dog picture (Dog API) -- *Maddy*
        - Display accompanying dog fact if we have time (Dog Facts API)
    - Create a to-do list
        - Add entries -- *Ethan*
        - Remove entries -- *Ethan*
        - Check-off entries -- *Amelia*
        - Clear all entries -- *Ethan*
        - Make to-do list visually dynamic using JavaScript -- *Ethan, Liam*
            - When adding items, the user doesn't need to go to another page. → Basically, the user can manipulate the to-do list without leaving their home/profile.
- <u>Static Front-End!</u> using Foundation, HTML, CSS -- *Amelia, Maddy*
    - Aesthetics and styling
- Add <u>API cards</u> for Public Holiday, Open Weather, and Dog Facts APIs -- *Amelia, Maddy*