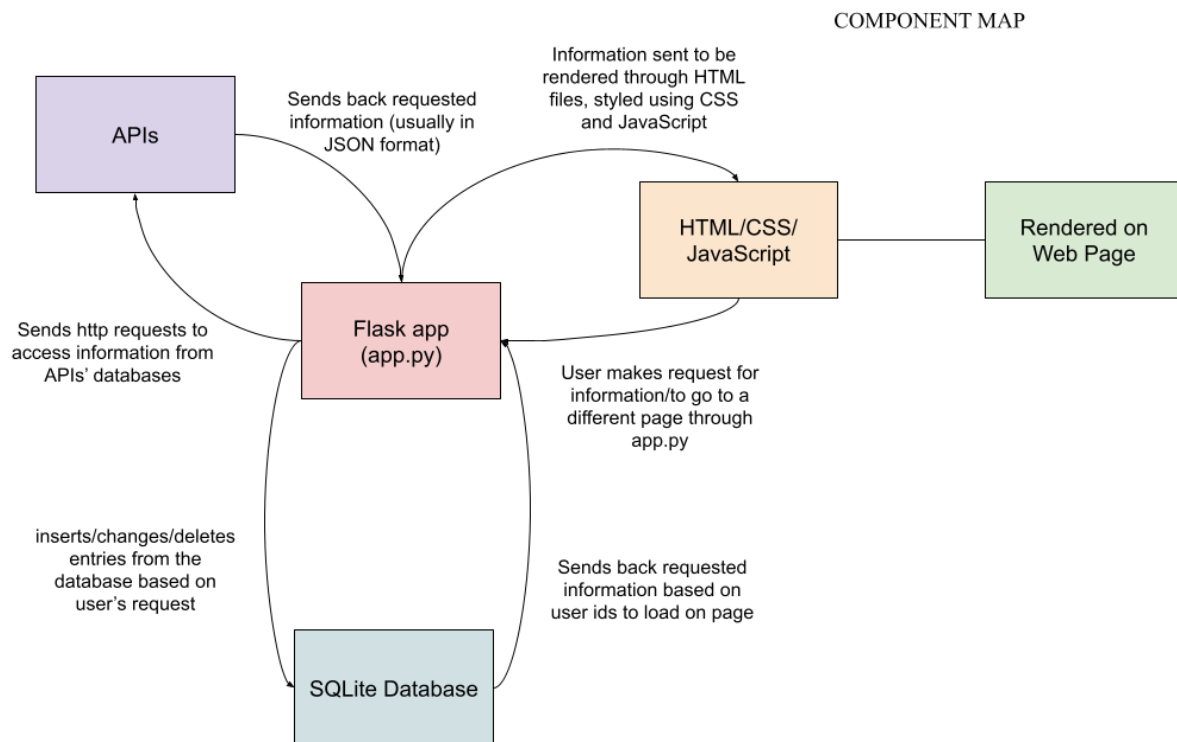Team lame (Amelia Chin, Ethan Shenker, Liam Kronman, Maddy Andersen)
SoftDev — Rona Ed.
P3 — ArRESTed Development, JuSt in Time
2021-04-29

Topic: Study Buddy that includes a to-do list, a notepad, date, time, a piece of advice, holiday of the day, weather, and a cute dog picture.

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
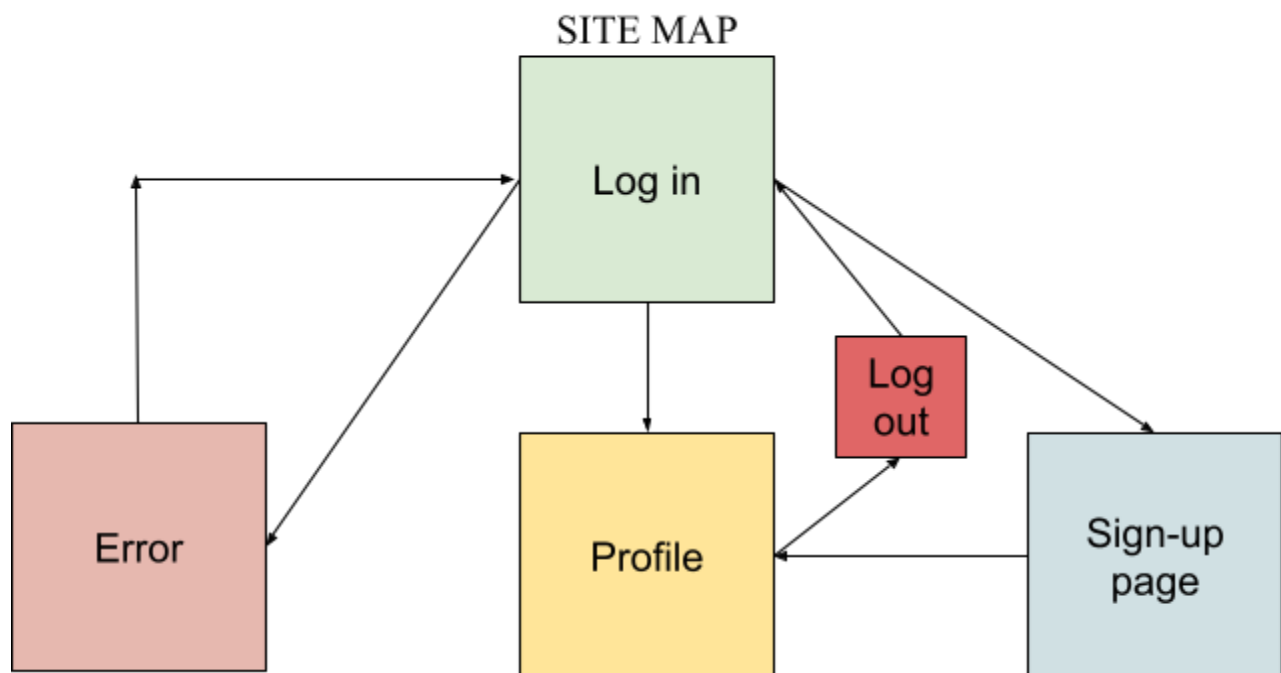
COMPONENT MAP

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

Profile Page:

Welcome [USER]!   SIGN OUT

[WEATHER]

Notes

10:43 AM
[DATE]
[HOLIDAY(s)]

[PIECE OF ADVICE]

To-Do
- Task 1
- Task 2
- Task 3
- Task 3
- Task 4
- Task 5
- Task 6
- Task 7

Task Breakdown
- <u>Login/Logout</u> -- *Ethan*
    - Registering users (setting up database of users and passwords)
    - Set up login page, register page, and error page
    - Check login info with SQLite table of users and passwords
    - Link login page with error page
    - Link login page with register page
    - Link login and register pages with profile
    - Link profile with logout page, link logout page with login page
    - Add session to keep track of the logged in user
    - Error handling -- *Ethan, Maddy*
- <u>Profile/Home Page</u>
    - Create personalized greeting with username, ex: "Hello, <username>" -- *Liam*
        - Change greeting message depending on time (good morning/afternoon/night) -- *Ethan*
    - Show time and date using JavaScript or Python datetime -- *Liam*
    - Display a piece of advice (Advice Slip API) -- *Amelia*
    - Display holiday (Public Holiday API) -- *Amelia*

- Display today's weather (Open Weather API) -- *Liam*
- Display dog picture (Dog CEO API) -- *Maddy*
    - Add dog fact (Dog Facts API) if we have time. *Update: We tried this, but the Dog Facts API does not work.*
- Create a to-do list -- *Ethan*
    - Add entries
    - Remove entries
    - Check-off entries
    - Clear all entries
- Create a notepad -- *Ethan*
    - Edit entry
    - Save entry (can edit same entry next time)
- Static Front-End! using Foundation, HTML, CSS -- *Amelia, Maddy, Liam*
    - login.html
    - register.html
    - error.html
    - user_page.html
- Add API cards for Public Holiday and Open Weather APIs -- *Amelia*

Timeline
- Working Flask app with login and logout functionality -- *4/26*
- Personalized greeting, date and time, weather, holiday, advice, dog picture, notepad -- *4/27*
- To-do list, front-end work -- *4/28*
- Tie up loose ends, API cards -- *4/29*