

API Website Design Document

Project Name: Quarter Collection

TNPG: Quarter Collective

Roster: Ankita Saha, Evan Chan, Jady Lei

TARGET SHIP DATE: 12-19-24

Program Components:

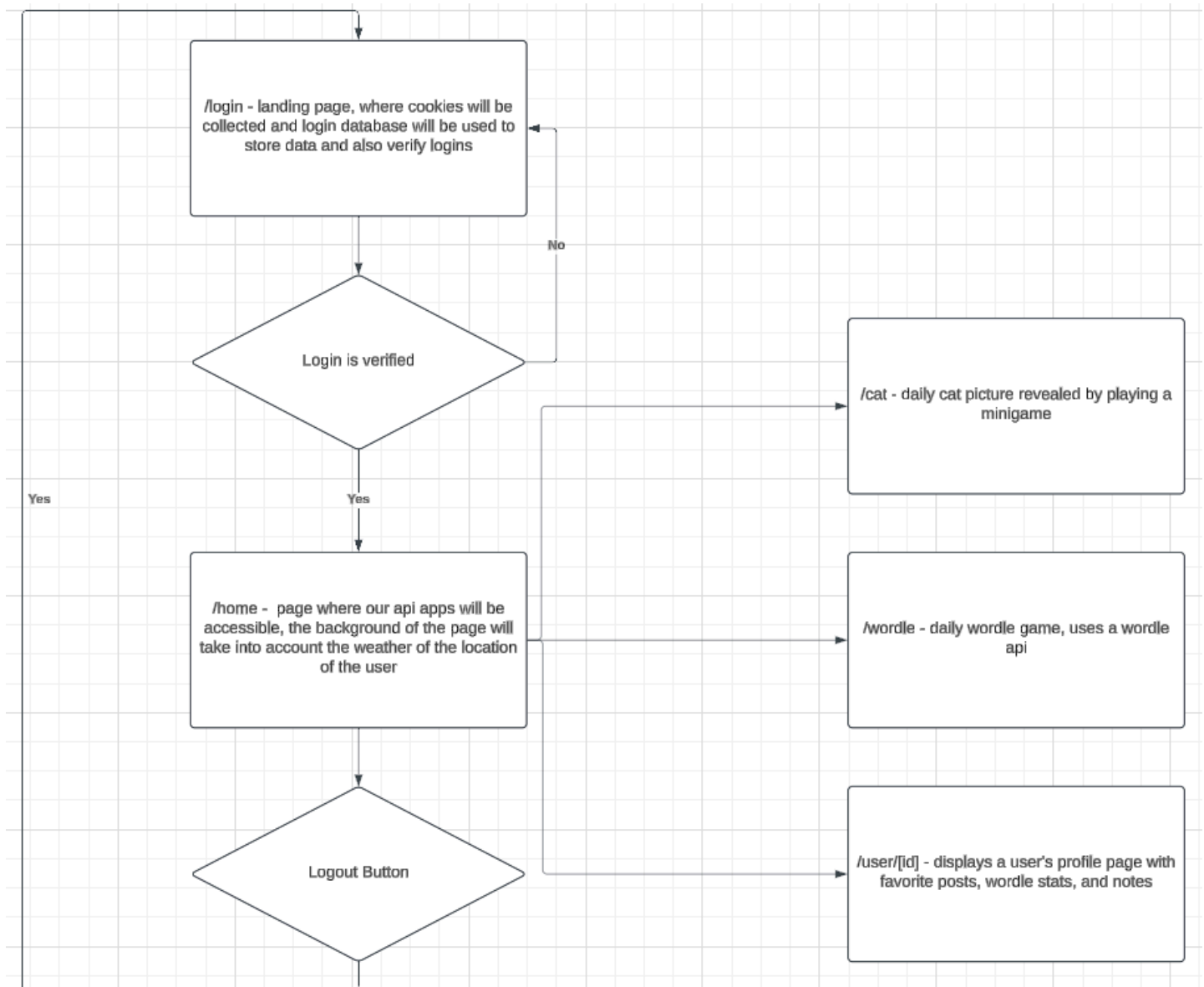
- *Login & Database*
 - Needed for users to login so they can access their past games, articles, etc.
 - Also takes in city the user wants to see the weather of
 - Takes in username and password (sessions)
 - Hash password to the database (SQLite)
 - Requires certain parameters (check user's input for pass w/ if/else statements to verify) to create a password (length, characters, etc.)
 - If the user is not logged in, they should not be able to view anything; the user must be registered first
 - Usernames have to be unique
- *Homepage*
 - Weather toggle, showing that day's weather; CSS will change to match weather for that day (f.e. sunny = yellow background)
 - Display articles based on that weather (travel destinations, weather forecasts, indoor activities for rainy days, etc.)
 - Search feature/Filter to get specific articles
- *Wordle Page*
 - Uses random words from Merriam-Webster API related to weather that day for a wordle game
 - The user has to guess a word and has six tries
 - If the letter is in the correct place, it's highlighted in green
 - If the letter is in the word, it's highlighted in yellow
 - After the word has been guessed(or not guessed), there will be a few suggested articles generated based on the word.
- *Favorites/User Dashboard Page*
 - There will be a table showing the user stats for the wordle game from previous days (time to complete, date, wordle #, etc.)
 - Below, any articles the user likes, they can "favorite" it and make any note they want saved, and it will show up on this page/user can also unfavorite article

Database Organization (Broad Overview)

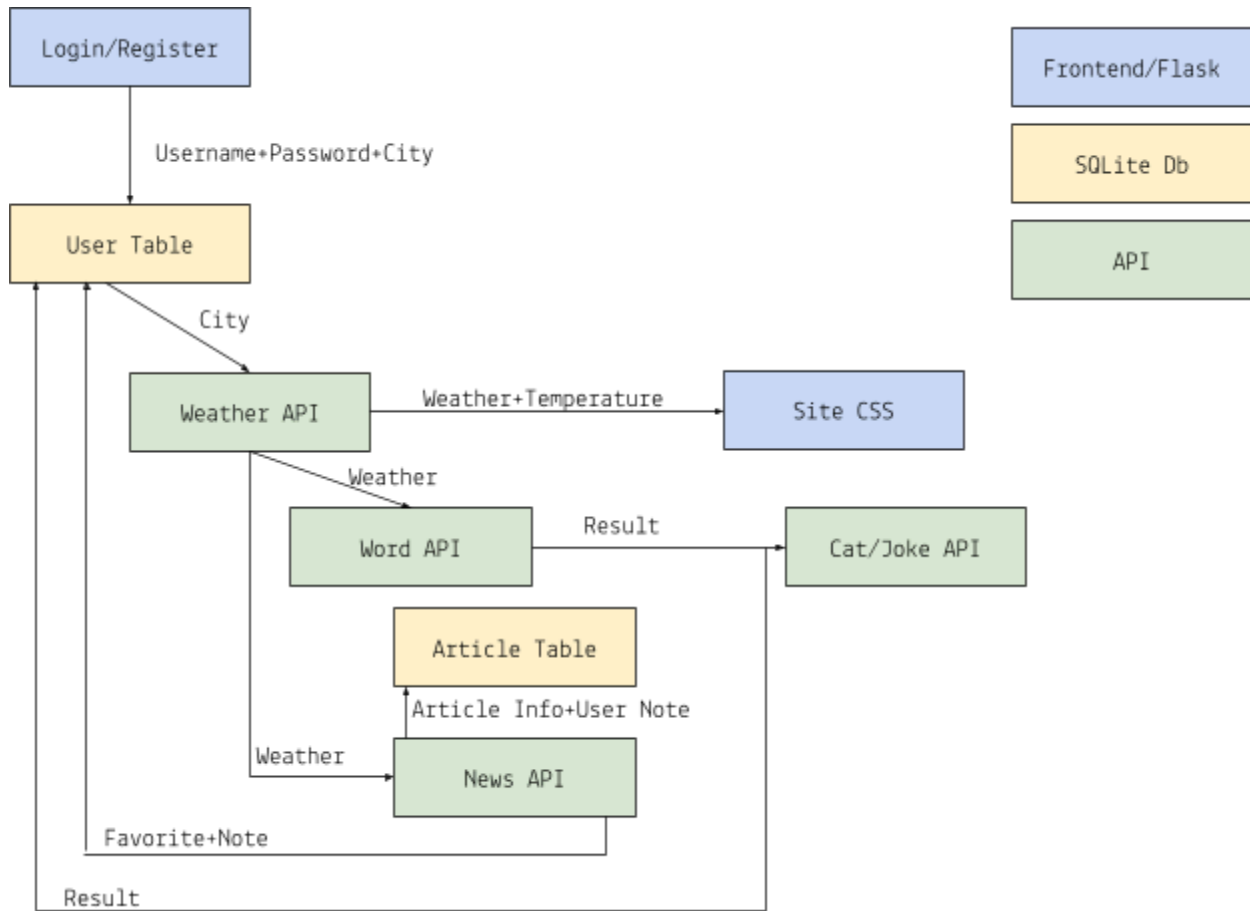
- User Table
 - Username (Key)
 - Password

- City associated with account
- have they done the word today
 - streak/amount done
- Favorited articles → With notes
- Store words, check if word has been done before
- Article Table
 - Article name
 - Author
 - Title
 - Intro/synopsis
 - Notes
 - Times favorited

Site Map



Component Map:



Task Breakdown:

- Ankita Saha - Project Manager & API
 - Oversee progress on each component and sets the pace for each component.
 - Provides any additional help to any component that requires it.
 - Work on connecting and pulling content from APIs
 - Work on login interface (including password hashing, storing in database) and database management (make sure the databases have proper info in them, etc)
 - Work on Favorites/User Dashboard Page
- Evan Chan - Flask & Middleware
 - Link different routes together
 - Manage different types of requests for site security
 - Make sure that the app is completely functional
- Jady Lei - Database & CSS
 - Work on CSS for finished components (Bootstrap)
 - Homepage
 - User Database
 - News/Article Database
- Honorable Mentions: Jack Blair, Colyi Chen