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Soft Dev

P01

Target ship date: 2022-12-16

To touch grass or to not touch grass?

Program Description

A site to determine if you should go outside today based on user preferences.

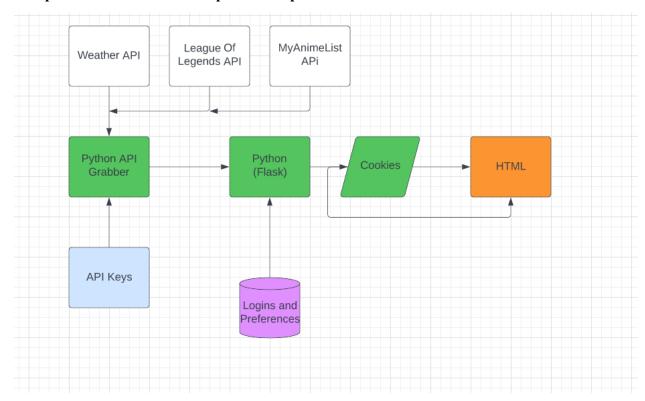
Program Components

- A. Python Files
 - a. database.py
 - i. get uid(username): Retrieves user id from username
 - ii. get password(username): Retrieves password from username
 - iii. get username(user id): Retrieves username from a user id
 - iv. get_weather(user_id): Retrieves the if user cares about weather or not
 - v. get league pref(user id): Returns how much the user likes league
 - vi. get_curfew_pref(user_id): Returns how much user cares about curfew if they have one
 - vii. get anime pref(user id): Returns how much the user likes anime
 - viii. get curfew(user id): Returns a user's curfew
 - ix. get anime(user id): Returns user's favorite anime
 - b. api info.py
 - i. get sunrise(user location):
 - ii. get sunset(user location):
 - iii. get_weather(user_location): Returns weather of current location (city)
 - iv. get_lol_clash(): Returns List of info for next or current clash tournament(Name and schedule)
 - v. get_anime_date(anime): Returns anime date
 - c. app.py
 - i. Flask
 - 1. @app.route("/"):

- a. redirect to /login
- 2. @app.route("/login"):
 - a. renders login.html
- 3. @app.route("/login/auth"):
 - a. login form: username & password
 - i. check for existence of username and validity of password
- 4. @app.route("/register"):
 - a. renders register.html
- 5. @app.route("/register/auth"):
 - a. register form: username & password
 - i. check for availability of username
 - ii. if account is successfully created, information is stored in database
- 6. app.route("/home"):
 - a. directs to a page that allows the user to go to the page where they can access other pages
 - b. display content that is potentially interesting to the user(maybe?)
- 7. app.route("/pref"):
 - a. directs to a page that allows user to customize their preferences
- 8. app.route("/grass"):
 - a. runs the algorithm that determines if the user should go out on the particular day
 - i. Each factor has points associated with it.
 - ii. Factors that would keep the user in add points to the total while factors causing the user to go out will deduct points from the total.
 - iii. The amount of points that a factor gets is based on if there's anything occurring that might interest the user.

- iv. It is also affected by how much the user is interested in the activity (1-10), changing the weight of the points
- v. If total points exceed a certain threshold, the user should stay inside, otherwise the user should go out.
- b. Returns page with results + activities
- 9. app.route("/info"):
 - a. Serves the pages with relevant information of the topics we are working with
- ii. Sessions
- 1. Session["user id"]: Stores the username of the user that is logged in B. Html Files (Bootstrap)
 - a. login.html
 - i. form for username and password
 - ii. Info about our site
 - b. register.html
 - i. form for username and password
 - c. preferences.html
 - i. Check boxes for different topics that user can show interest in
 - ii. Form to enter curfew
 - iii. Sliders to show amount of interest for each supported topic
 - iv. Form to enter city/region that user lives in
 - d. grass.html
 - i. Information about individual topics
- C. Misc.
 - a. key weather.txt
 - b. key LOL.txt
 - c. key MAL.txt

Component Interactions/Component Map



Database Organization

Logins

Username	UserID	Password

Preferences

UserID	League (Clash Tournament)	Curfew (Maybe)	Weather (Cut for now)	Anime
	0-10	0-10	0-10	0-10

User Info

UserID	Location	Desired Curfew	Favorite Anime

APIs

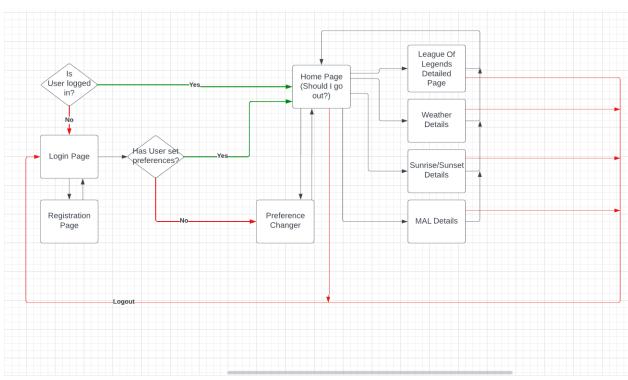
- Weather API
- Myanimelist api
- Riot API
- NBA schedule API(maybe)

Bootstrap

We are using bootstrap because the style appeared more modern and clean.

- Navbar at the top of each page with links
 - Dropdowns for individual preferences on navbar
- Bootstrap forms to provide information
- General styling and information placement
- Checkboxes

Site Map



Task Breakdown (Strikethrough as we complete)

• Create design doe

- Revise design doc
- Write Python to pull API data (*Jeff*)
 - o Confirm all APIs work
 - Test by having all data from API put on a throwaway HTML file
 - Functions to retrieve information from APIs
- Write Python to serve the HTML (*Vivian*)
 - Cookies to store user login status
 - Login + registration
 - o Some sort of algorithm to determine whether user should touch grass or not
- Create database (*Ivan*)
 - Login storage
 - o Preferences storage
 - o Functions to retrieve data from database
- Create HTML (*Brian*)
 - o Login Page
 - o Registration Page
 - o Preference Changer
 - Pages that show relevant information about certain topics(based on the APIs we are using)
 - Should I go out? page
 - Have API update (constantly or set interval)
 - o CSS! (Bootstrap)
 - Individual API pages
 - Create API cards for APIs not already in database
- TEST throughout the process!!!