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## SUMMARY OF MVP

We propose an app that is oriented around health. We will incentivize completing tasks by assigning them a point breakdown as well as a leaderboard of top users. Once the user logs in, they will be able to access an online forum where they can exchange messages with each other. On the dashboard, there will also be interactive maps and charts where they can monitor calorie intake, sleeping schedules, and physical activity. Also, the app will contain sections for personalized health tips (like meal planning), track fitness activities, and reminders.

## PROGRAM COMPONENTS

- `__init__.py`: app for website
- `templates/`
  - `Config.html`
    - Allows users to respond to questions about their user preferences (modes for app like light/dark) and health information (physical attributes)
  - `Survey.html`
    - Daily survey that asks about calorie intake, sleeping schedules, and physical activity
    - Can be updated as often as necessary
  - `Login.html`
    - App will require users to log in or register if they have not done so already
  - `Register.html`
    - Registration page
  - `Error.html`
    - Displays a custom error message
  - `Home_page.html`
    - Shows user dashboard, which will include interactive charts about calorie intake, sleeping schedule, and physical activity, as well as to-do list
    - Will include links to needed forms to update aforementioned charts
    - Receive personalized health tips/recommended fitness activities based off US Department of Health API
    - Access the online forum
  - `To-do.html`
    - Allows for quick and easy updates for reminders
    - Include option to send sms reminders for events through Fast2SMS API (Stretch Goal)
    - Checkboxes for events

- Forum.html
  - Online forum to exchange messages
  - Can also leave comments and reply to other users
- Ranking.html
  - Show database results that are ordered from least to greatest in terms of user inputted data about their own progress on their goals
- Setup\_db.py (ran once)
  - Functions that makes calls to each database to populate tables
  - Functions that will get relevant information based off the user query
- js/modules
  - Charts.js
    - Interactive charts for sleeping schedule, calorie intake, and physical activity

## API:

**Fast2SMS:** Send text reminders <https://www.fast2sms.com/>

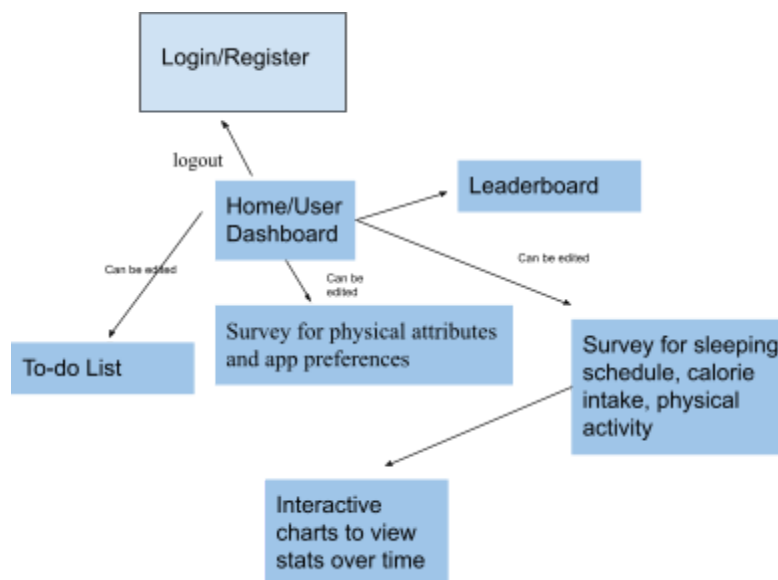
**US Department of Health API:** Return data on health advice for users based off physical attributes

<https://health.gov/our-work/national-health-initiatives/health-literacy/consumer-health-content/free-web-content/apis-developers/how-use-api>

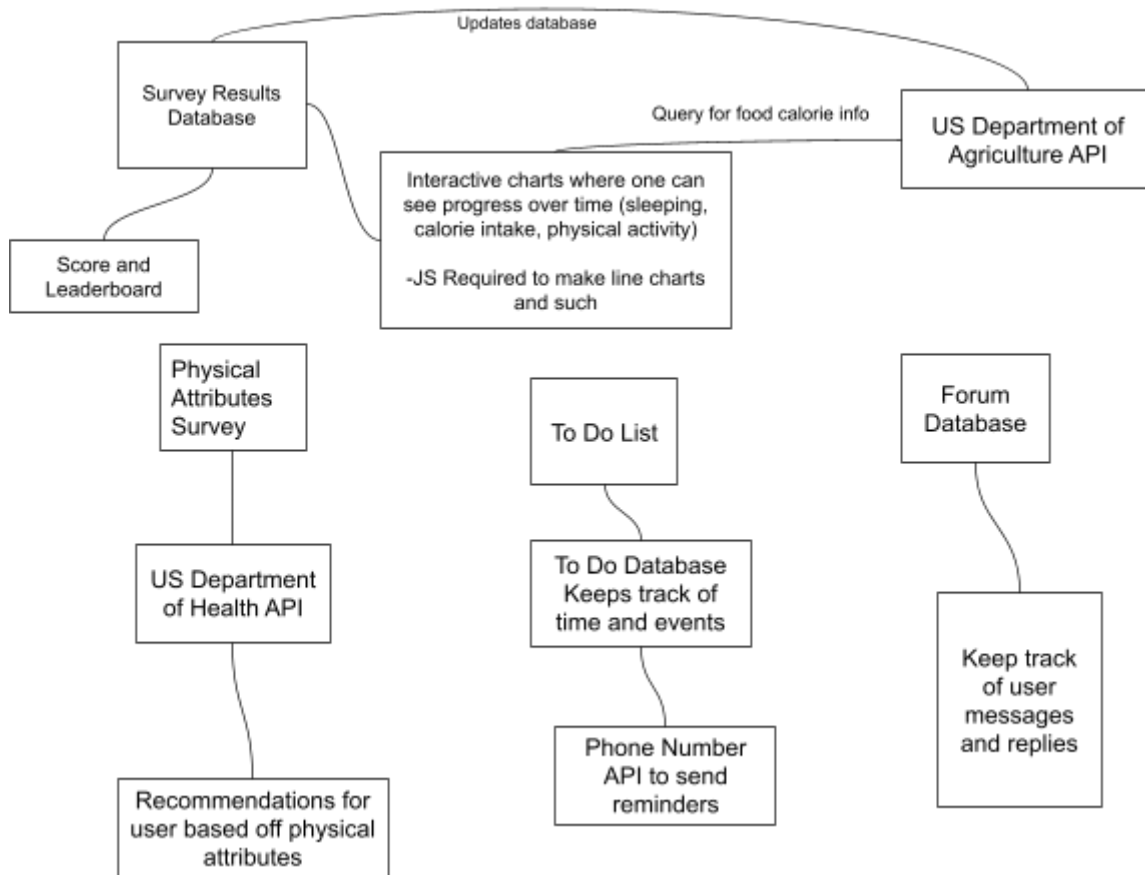
**US Department of Agriculture:** Return nutrition data for food

<https://fdc.nal.usda.gov/api-guide.html>

## FRONT END SITE MAP:



## COMPONENT MAP:



## DATABASE:

user\_info

Username	Password	Phone Number

user\_physicals

Username	Height	Weight	Preferences	Goals

Survey\_results

Username	Date	Calorie Intake	Time slept	Time spent undergoing physical activity	score

forum

username	message_id	message_contents	replies

To-do

User	Date-Time	Tasks	Completed Tasks

## FRAMEWORK

We will use Bootstrap because it offers us better customizations to our site that make our site look more professional. Such features include: progress bars, sliders, loading buttons, various colored/shaped buttons, customizable tables, collapsibles, forms, search bars, and tooltips/popovers(hovering will show text).

## BREAKDOWN OF TASKS

### Daniel:

- interactive charts in the user dashboard and their associated surveys
- SMS reminders
- To Do List

### Brian:

- Front end
- API calls for US Department of Agriculture

### Prattay:

- Online forum
- API calls for US Department of Health

### Vansh:

- interactive charts in the user dashboard
- Database creation and management