- The project must demonstrate knowledge of the concepts covered in class. To that end:
 - You must use python/Flask
 - You must use a front-end framework (probably bootstrap or foundation)
 - You must provide custom CSS
 - You must have your own javascript code that does something meaningful for your project
 - Include at least two examples of:
 - making ajax calls
 - using canvas or svg
 - using data visualization (most likely d3)
 - You must use at least one of the following:
 - databases
 - APIs
 - If you are using an API, research it to make sure it is stable.
- Create a PDF named DESIGN.pdf in your repository (See other projects for detailed Design Document guidelines).
 - Include a component map, site map and database schema (if applicable), as well as any necessary supporting documentation.
 - Include a component description
 - Divide the tasks among your group members. Include a Project Manager.
 - Include a tentative timeline
 - Include a style guide

FINAL PROJECT: Organizer

Pd 8 | 3Y1B: Md Abedin, Karen Chen, Jenny Gao, Yiduo Ke

DESCRIPTION

The goal of this website is to help users stay organized. Users can add tasks to their to-do list and simultaneously view tasks in list form and calendar form (on the same page). The leaderboard will create incentive to complete tasks in a timely manner.

PROGRAM COMPONENTS

FRONT END (Bootstrap)

- index.html
 - a) Template for users' main page (option to create account/log in)
- create.html
 - a) Users creates account
- login.html
 - a) Users log in

• leaderboard.html

a) Displays ranks of users based on how quickly they finish their tasks

• Home.html

a) Shows to do list and calendar, as well as completed tasks

style.css

a) Maintains consistent style throughout site

• Bootstrap.min.css

a) Makes site responsive

BACK END

app.py

b) Serves website, handles url requests/form responses, updates site

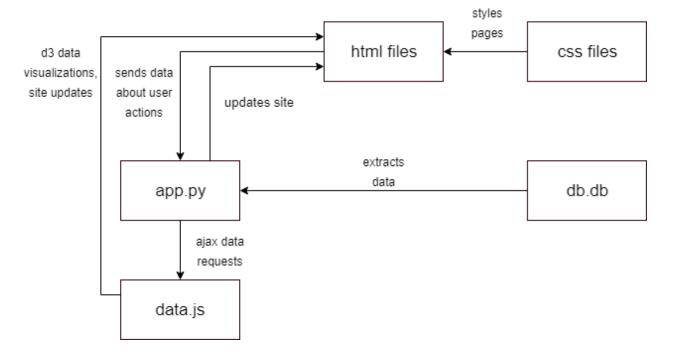
db.db

- a) Stores all ongoing and completed tasks of all users
- b) Stores user task completion stats:
 - i) How long they expected/how long they took for a task
 - ii) Time started and time ended

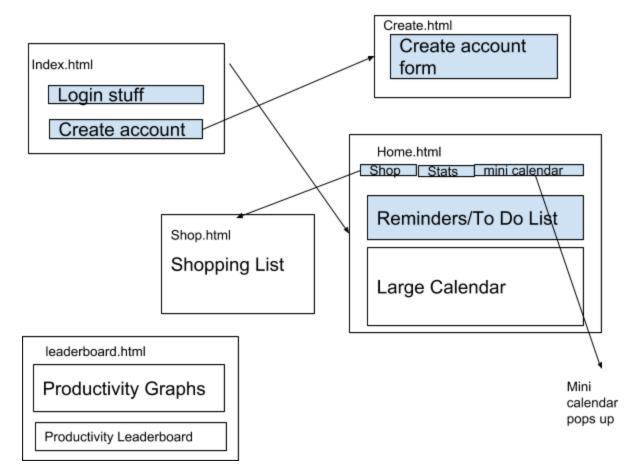
data.js

- a) Acts as a bridge between the UI and the database of user info
- b) Performs d3.js data visualization

COMPONENT MAP



SITEMAP



ROUTES

- Home Page ("/") renders "home.html"
 - o Shows to do list and calendar if logged in, otherwise redirects to login
- Create Account ("/account/create")
 - o asks for username and password, will redirect to login on success
- Shop ("/shop") renders "shop.html"
 - Allows users to add items to shopping list
- Leaderboard ("/leaderboard") renders "leaderboard.html"
 - Displays ranks of users based on how quickly they finish their tasks
- Login ("/account/login") renders "login.html"
 - Login or create an account
- Logout ("/account/logout") redirects to "/"
 - Logs out account

DATABASE SCHEMA

TABLE: users

| Column Name | Туре | Example |
|-------------|--------------------|---------------|
| username | STRING PRIMARY KEY | 'drawbot5000' |
| password | STRING | ʻas23da' |
| score | INTEGER | 100 |

TASK ASSIGNMENT

Project Manager: Yiduo Ke

Specific Tasks: (these are tentative; you can change them if you want)

• Front end: Karen Chen

o making things look aesthetic (e.g. how tasks look on to-do list/calendar)

- Programming the to-do list and calendars:
 - Md Abedin: database (handling user info like what tasks and when), calendar display
 - Jenny Gao: HTML files/Flask, to-do list, leaderboard/d3 visualization
- Incorporating APIs to help users shop: Yiduo Ke

TIMELINE

Week of May 13/20: To-do list, calendar, shopping system

Week of May 27: Timer Week of June 4: Aesthetics