

FINAL PROJECT: Organizer

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

DESCRIPTION

The goal of this web app is to help users stay organized. Users can create to-do lists, shop for shopping list items, view visualizations of their productivity, and compare themselves to others on a leaderboard.

PROGRAM COMPONENTS

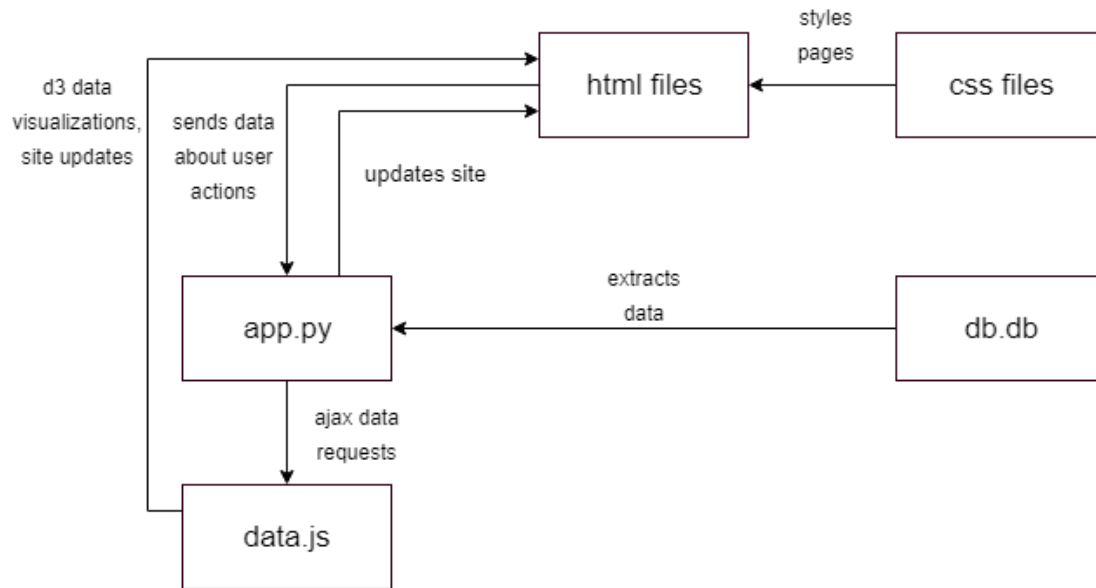
FRONT END (Bootstrap)

- ***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

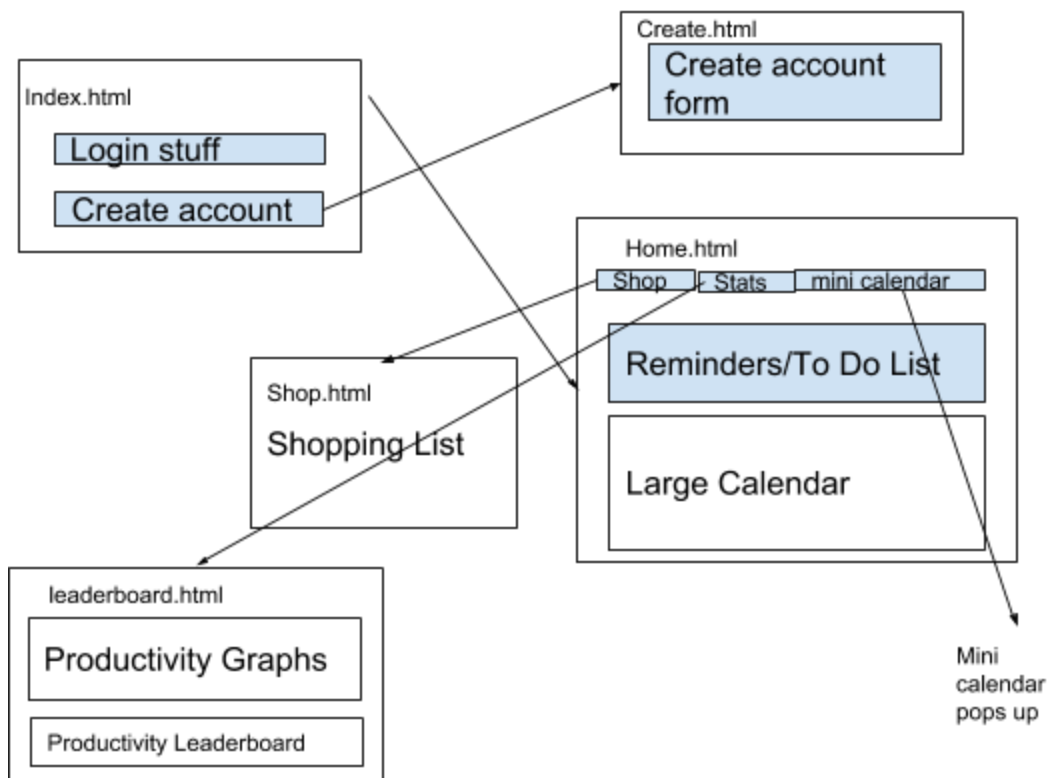
BACK END

- ***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"
 - Shows to do list and calendar if logged in, otherwise redirects to login

- **Create Account (“/account/create”)**
 - 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 SCHEMAS

TABLE: users

Username (STRING PRIMARY KEY)	Password (STRING)	Score (INTEGER)
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TABLE: <username>

Task name (STRING)	Start time (DATETIME)	End time (DATETIME)	Expected completion time in min (INTEGER)	Actual completion time in min (INTEGER)
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TASK ASSIGNMENT

- Front end: Karen Chen
 - 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 (Project Manager)

TIMELINE

5/17-5/20: Functional to-do list that saves in database

5/21-5/24: Calendar view

5/25-5/28: Productivity data visualizations

5/29-6/1: Shopping list with Amazon API to search for items

6/2-6/5: Leaderboard