AIS
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SoftDev PD 2
Target Ship Date: 2023-06-13
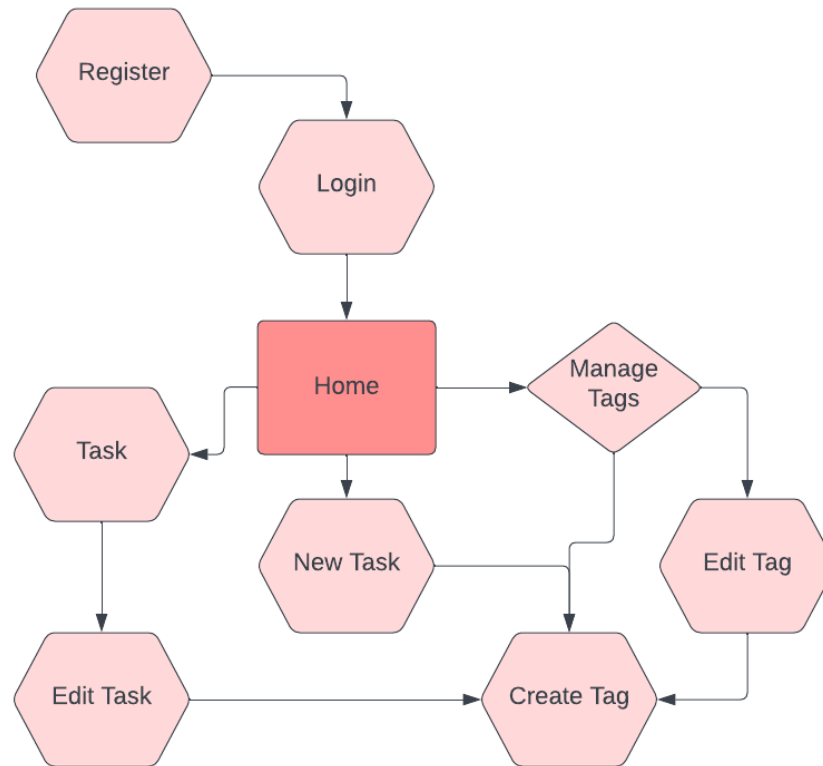
P_05: Design Doc

Website Description: A task manager that allows for the creation of to do lists and built in Pomodoro timers

- To do list
- Table
  - Title
  - Task
  - Due date
  - Tags
- Extra:
  - Linked youtube vids
  - Blinking timer
  - animations
  - Calendar view
  - Dark mode
  - Profile picture
  - Search bar for tasks
  - Change password

Framework: Bootstrap

- We all used Bootstrap before
- Has functionalities such as carousel that we want to use
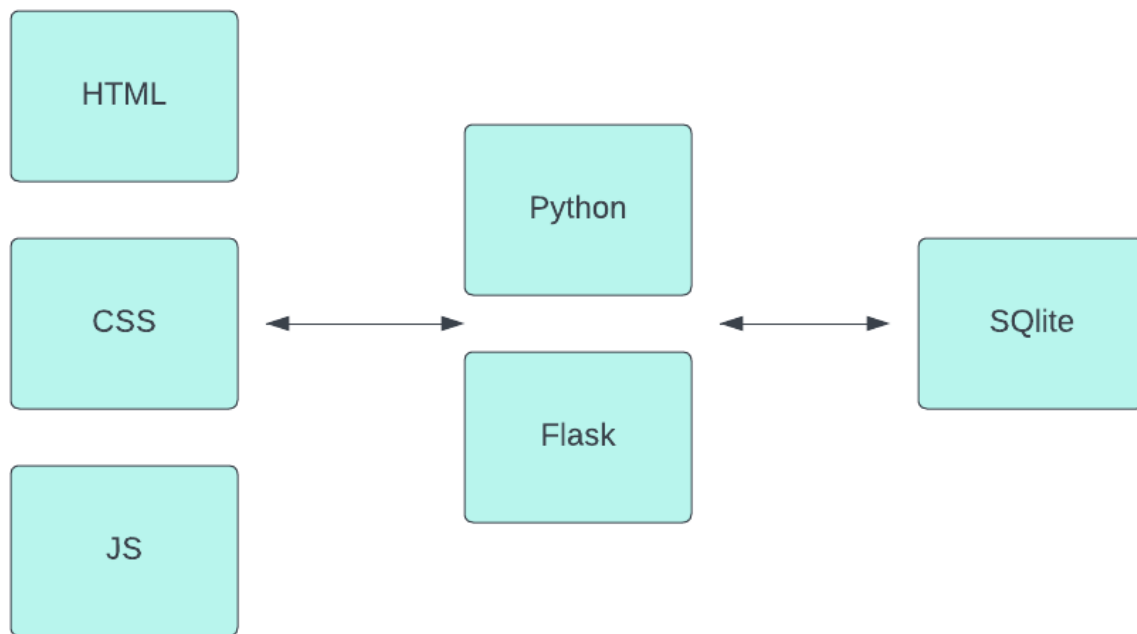
Site map:

- Main page
  - Shows all tasks in order by due date
  - Can change status of tasks here
  - Can filter tasks by tags
- Create task
  - Add a title, description, tags
  - Should be able to create a new tag here too
- Create tag
  - User chooses a color and a name (no duplicates)
  - Option to add the new tag to tasks in bulk
- Task page
  - Complete description of task
- Edit task
  - Change anything about it
  - Should be able to create a new tag here too
- Manage tags
  - List of all tags
- Edit tag

○　Change the name or color of a tag
　　　　○　Check for duplicate tag names

A task can contain:
- Title (required)
- Description
- Tags
- Due date (required)
- Status (done, not done)

Component Map:

Python:
- db.py: connects database with flask server (manipulates sqlite)

SQLite:
- data.db
　　○　users: stores users' login info
　　○　tags: stores the tags of tasks
　　○　tasks: stores tasks data

Flask:
- __init__.py: Flask is used to render templates to server

HTML Templates:
- landing.html
- login.html
- signup.html
- home.html
- create-task.html
- create-tag.html
- edit-task.html
- manage-tags.html
- edit-tag.html

Javascript:
- style.js: holds JS code for styling purposes
- timer.js: holds JS code for timer functions
- buttons.js: JS for buttons

CSS:
- style.css: hold CSS code for styling purposes

SQLite:

We will use the row_id (already automatically built into every SQLite table) in each table to uniquely identify the user, tag or task.

Tables

users

row_id	username	password
Doubles as user_id	No duplicates!	

tags

row_id	user_id	name	color
Doubles as tag_id		No commas allowed	

tasks

row_id	user_id	title	description	status	year	month	day	hour	min	tags
Doubles as task_id	Whose task this is			Completed, In progress, not started				24-hr time		tag_ids split by commas

- The row_id from the user table (AKA user_id) will be used to filter through the other tables, getting only the data for the user logged in

Breakdown of Tasks:
1. Sqlite: Brian + Craig
2. Flask/JS: Wilson
3. HTML/CSS: Maya