TNPG: Truly Delectable Sleeping Duckies
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SoftDev
P04
2023-05-01
Time spent: 6 hrs
Target Ship Date: 2023-05-29

<h2 style="text-align:center">McMapping Disappointment</h2>

Abstract:

The main page will display a zoomed out map visualization of the United States (using javascript). When the user hovers over an individual state, the happiness ranking is shown as well as the minimum wage in that state (an aspect we believe is related to happiness). When the user clicks on the state, they will be shown all mcdonald's locations within the state and subsequently the status of the ice cream machines. Using the Mcd location grabber API, the user can enter in an address. Nearby McDonalds, their Mcrating (via Yelp API) and their ice cream machine status will be shown.

If we have time (and energy), we aspire to create a rant forum so our classmates can complain about the fact that the ice cream machine at the Chambers Street McDonalds NEVER works :-) There will be a login system associated with both parts of the site, but it will be especially relevant for the forum bit.
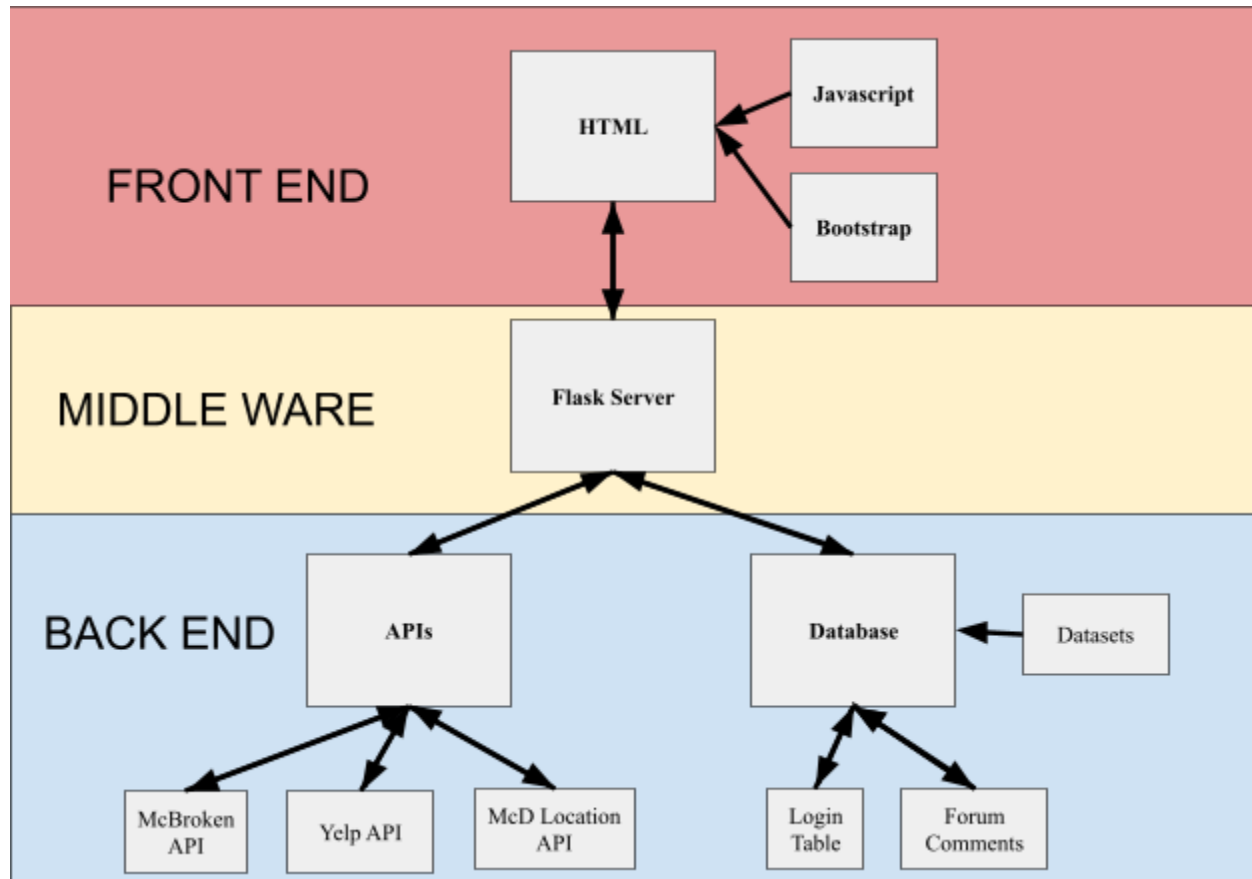
Program Components:
- HTML
  - The main page (landing) of the website will be the Maps visualization. We will have an accounts option page (registration page) to distinguish between users, and a forum page for the rants comments concerns (confessions?) relating to McDonalds ice cream.
- Flask
  - This should not be any much different than previous projects. Flask will be a medium for linking web pages together, along with pushing data gathered from McDonalds API Wrappers and SQLite3 Logins.
    - Adds to databases based on corresponding post requests
    - Uses render_templates to display any necessary pages
- SQLite3
  - Stores logins
  - Stores forum comments

- ○ Stores our datasets into SQLite format
- Javascript
  - ○ Interactiveness of our website (animations, hovering popups for each state, hiding and showing certain forum messages, etc).
- APIs
  - ○ McBroken
    - ■ This API updates the statuses of McDonalds ice cream machines every 30 minutes
  - ○ Yelp
    - ■ Gets ratings of the specific McDonald's locations
  - ○ McDonalds Location Grabber
    - ■ Allows us to query nearby McDonald's locations
- Datasets
  - ○ McBroken
    - ■ Dataset form of the McBroken API
  - ○ State Happiness
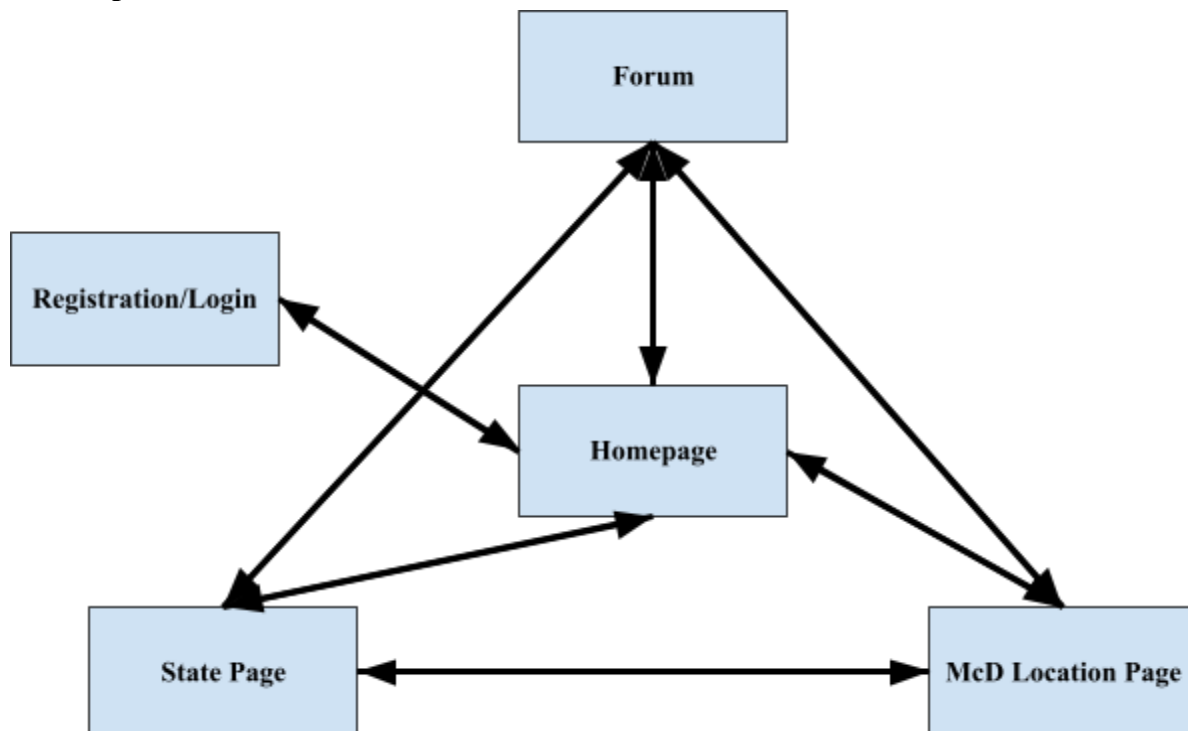   - ■
  - ○ States Minimum Wages

Bootstrap or Foundation?
- Bootstrap
  - ○ Custom Buttons and Text Boxes, along with a navigation bar, will use Bootstrap designs.
  - ○ Mainly chosen due to bootstrap being better suited for responsive design, which is what we're personally aiming to do.

Component Map:

Site Map:

- HTML registration form
    - links to and stores information into a database table containing all user info (username and password as text)
    - Connects to homepage
- Homepage
    - Maps visualization using JS and APIs
    - Connects to every other page
- Loaded pages for each state
    - includes all relevant information (Mcdonalds locations, Yelp rating, state minimum wage, happiness, etc) and a button to return to the Homepage
    - Can click into specific locations for more information
    - Can also access forum through this page
- Forum Page (stretch goal)
    - Acts like a community blog site. Includes a textbox for the user to enter new text and a button to return to the Homepage or state page.
    - Links to a database storing post number, post text, and the username of the user who entered the text.

Task Distribution:
- Anna Fang:
    - Front end
        - JS, CSS, HTML
- Aleksandra Shifrina:
    - Front end
        - JS, CSS, HTML
- Samson Wu:
    - Back end
        - Flask, Database, APIs
- Ravindra Mangar:
    - Back end
        - Flask, Database, APIs