TNPG: Truly Delectable Sleeping Duckies
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SoftDev
P04
2023-05-3
Time spent: 6 hrs
Target Ship Date: 2023-05-29

McMapping Disappointment

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 [provided via dataset] 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 single-thread 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 single-thread 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, etc).
- APIs
  - ○ 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.
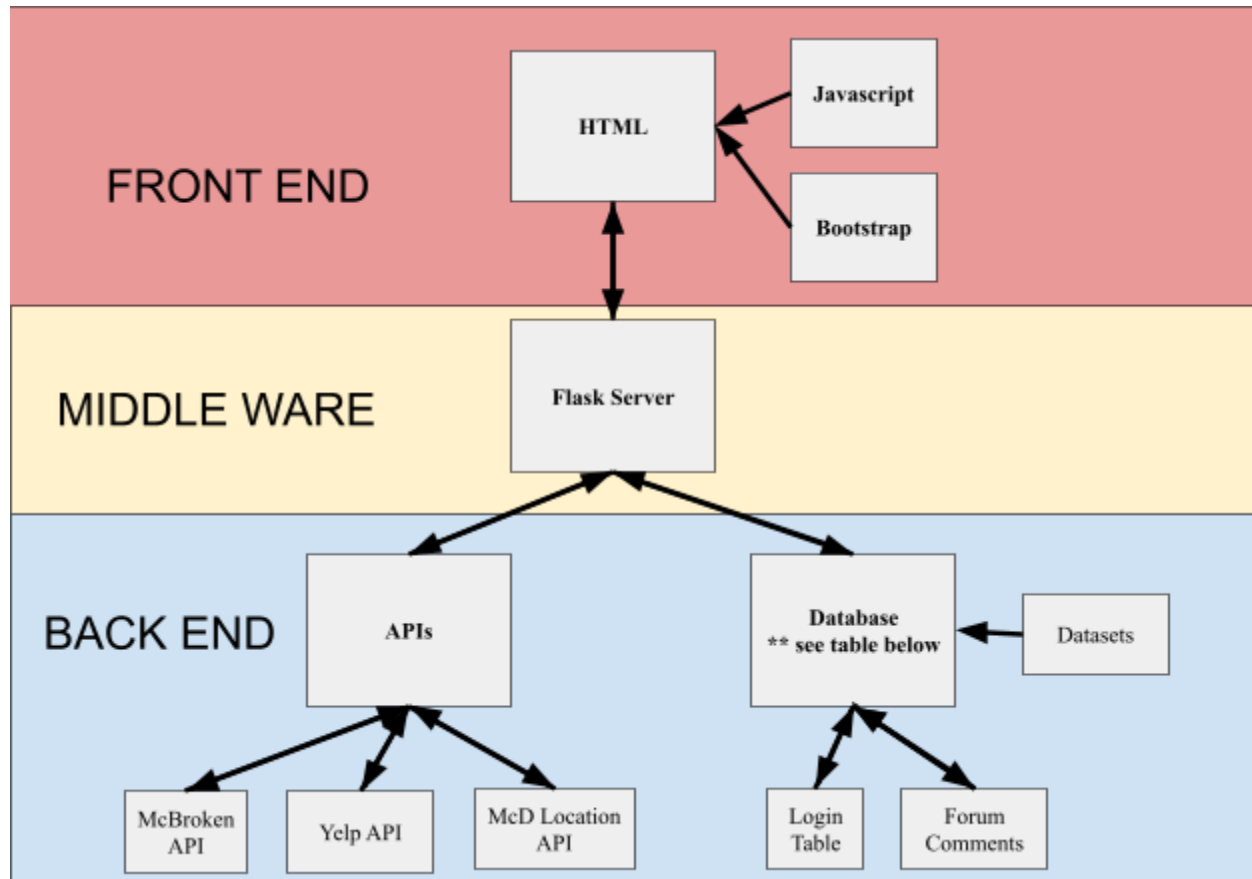
Component Map:

Table Organization:

Users

Username	Password	UserID

Forum

UserID	Forum Post #	Forum Post Text

McBroken

Lat	Long	Is Broken	City	State	Address

State Stats

State	Happiness	Minimum Wage

Site Map:
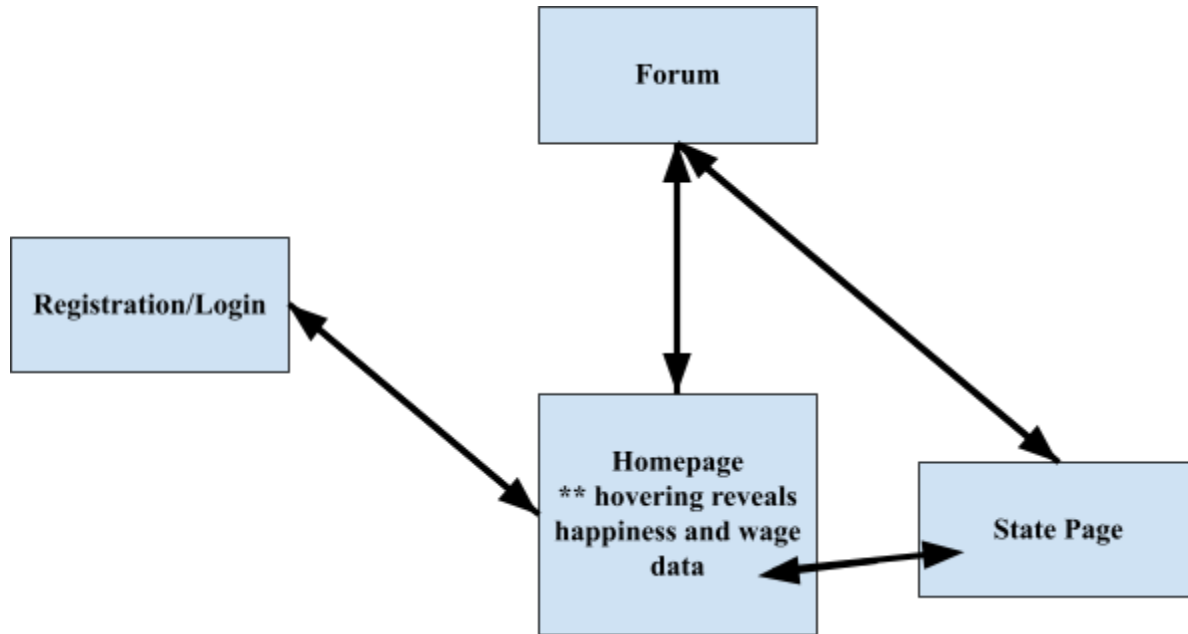
- HTML registration form
    - links to and stores information into a database table containing all user info (username and password as text)
    - Connects to homepage
- Homepage
    - Maps visualization using JS and APIs
    - Hovering reveals state happiness, minimum wage data, and visualization (but not exact location) of each store
    - Connects to every other page
- Loaded pages for each state
    - includes all relevant information (Mcdonalds locations, Yelp rating, machine status) and a button to return to the Homepage
    - 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 **see abstract.
    - 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