

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~~ **state stats** (the status of the ice cream machines, **the brokenness level of McDonald's locations, happiness, the total number of McDonald's locations, and the ratio between broken and working ice cream machines**). ~~Using the Med location grabber API, the user can enter an address. Nearby McDonalds, their Merating (via Yelp API) and their ice cream machine status will be shown.~~ **We will be using the OpenStreetMap API to interactively display all mcDonald's locations and their ice cream machine status.**

~~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 :-)~~ **Our new stretch goal is to make a search bar for users to find McDonalds locations via address search.**

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 **(US)** Maps visualization. We will have an accounts option page (registration page) to distinguish between different users, and a single-thread forum page for the rants comments concerns (confessions?) relating to Mcdonald's ice cream. **We will also have a conclusions page and an interactive maps page.**
- 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~~ **OpenStreetMap API**, ~~YELP 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
- Javascript
 - Interactiveness of our website (animations, hovering popups for each state, etc).
- APIs
 - OpenStreetMap
 - Fetches geodata to return the street layout of a specific area
 - ~~○ Yelp~~
 - ~~■ Gets ratings of the specific McDonald's locations~~
 - ~~○ McDonalds Location Grabber~~
 - ~~■ Allows us to query nearby McDonald's locations~~
- Datasets
 - McBroken
 - 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:

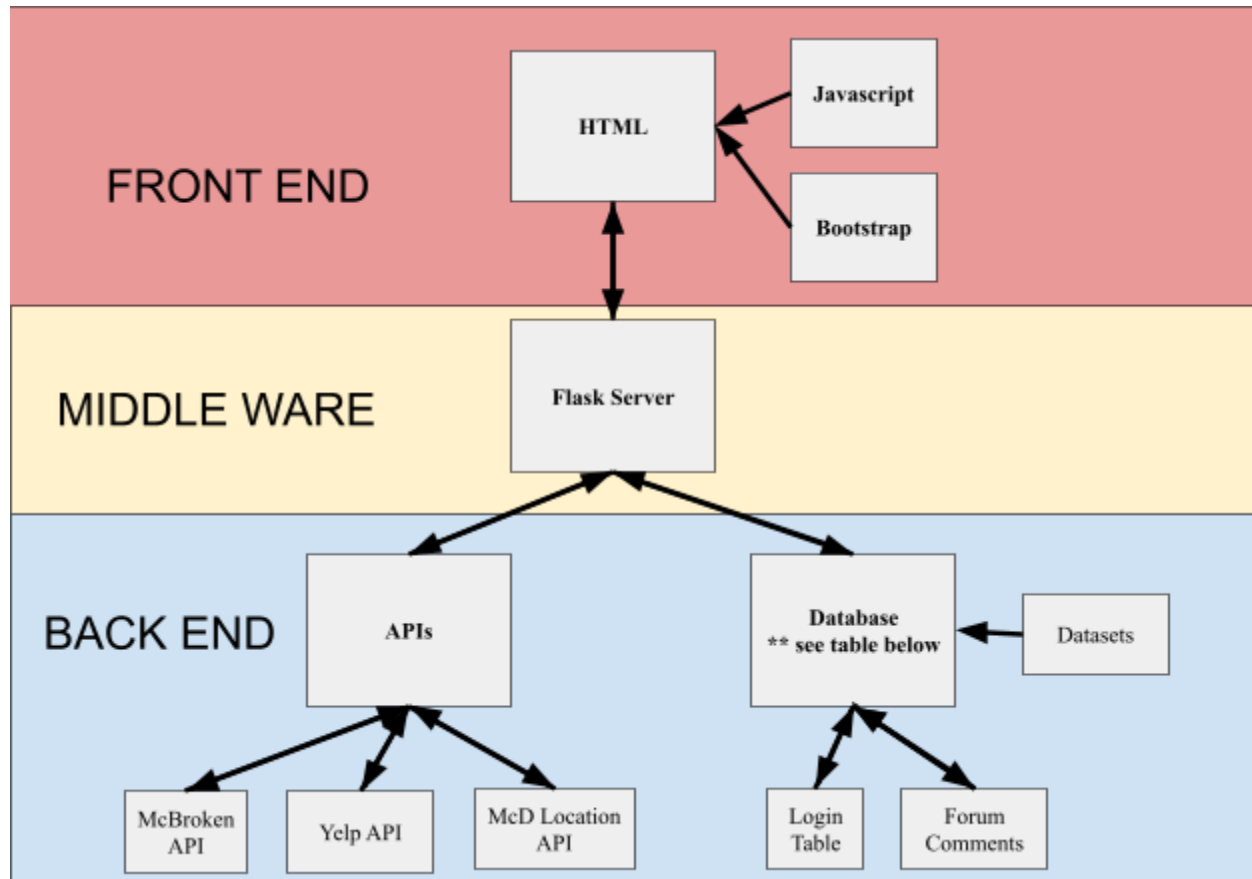


Table Organization:

Users

Username	Password	UserID
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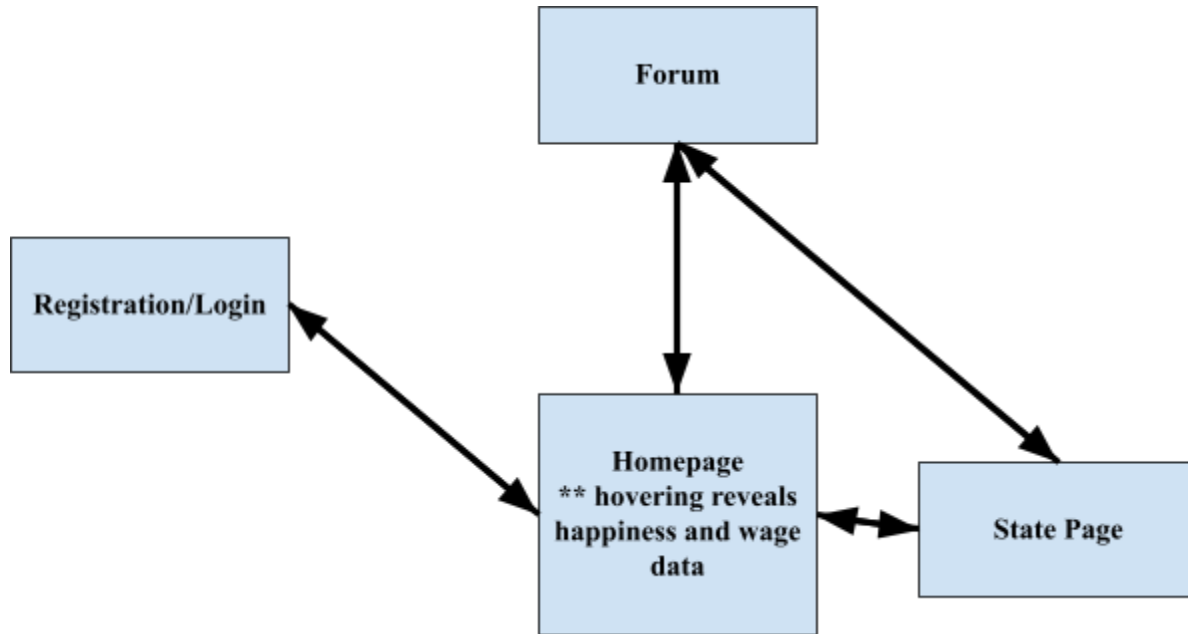
Forum

Username	Forum Post #	Parent #	Forum Post Text	Date
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State Stats

State	State Short	Happiness	Minimum Wage
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Site Map:



- HTML registration form
 - links to and stores information in 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 data points** (~~Medonalds 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.
- **Conclusions Page**
 - **Graphs (line and scattergrams) comparing the relationship between each data element**
 - **Our conclusions based on the data collected**
- **Interactive page**
 - **Using the OpenStreetMaps API, we will create an interactive map for users to find McDonald's locations and identify their ice cream machine status.**

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