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SoftDev

P01 -- ArRESTed Development -- NBA Love Story

2022-12-02

time spent: 1.5 hrs
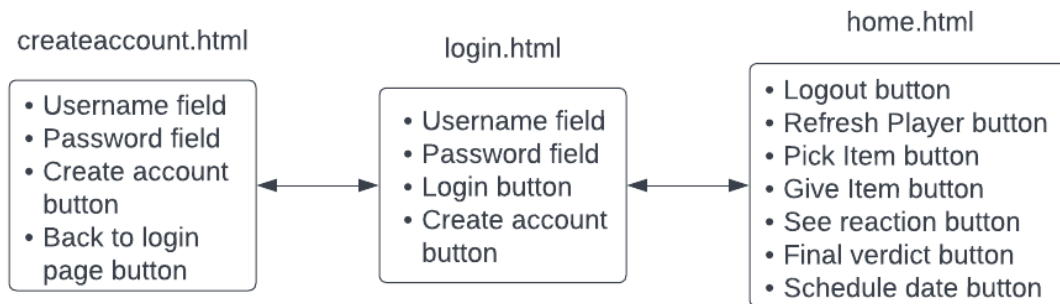
Target Ship Date: 2022-12-14

Files Needed:
- HTML Files:
    - login.html
    - createaccount.html
    - home.html
- CSS Files:
    - style.css
- JS Files:
    - script.js
- Python Files:
    - __init__.py
    - helper.py
- SQLite Database:
    - tables.db
- API Files:
    - key_love_calculator.txt
    - key_NFL_schedule.txt

Program Components:
- Login Button
- Username field
- Password field
- Logout Button
- Create Account button
- Back to Login Page button
- Pick Item Button
- Refresh player button

- Give item button
- See reaction button
- Final verdict button
- Schedule date button

Component Map:

Database Organization:
- Login Info
  - Username
  - Password

Site Map:

login.html:
- This is the first page the user navigates to.
- The user must login with a username and password to access the other pages (besides createaccount.html).

createaccount.html:
- The user can navigate to this page through the login page as well as navigate back to the login page through the create account page.
- The user has to create a username and a password.
  - The username cannot be the same as another user's username.

- The username and password will be added to the users database in tables.db.
  - The password will use hashing to hide its content.
- Once an account is created, the user will be navigated back to the login page.

home.html:
- The user will be navigated to this page upon successfully logging in.
- This will include the NBA love story, which will utilize a total of five APIs.

style.css:
- This will have any custom CSS we use to stylize our site.

js.script:
- Buttons and what the buttons do
- Allow for more elements to be displayed on the page with the user's actions

__init__.py:
- Routes, managing server, Flask and connecting with html.

helper.py:
- Functions for calculating more complex algorithms.

Tasks:
- ☐ Create account page
  - ☐ SQLite table (Gitae)
- ☐ Login page (Diana)
- ☐ Home page
  - ☐ Narrative of the love story (All)
  - ☐ Creating buttons that continue the story (Vivian)
  - ☐ Retrieving NBA name, age, and stats from the NBA API (Samantha)

☐ Retrieving an item from the Fake-Store API (Samantha)

☐ Returning a yes/no GIF from the Yes/No API (Samantha)

☐ Retrieving data from the Love Calculator API

☐ Retrieving a date from the NFL Schedule API (Samantha)

☐ Flask, connecting components (Diana)

☐ Bootstrap/CSS formatting/JavaScript(?) (Vivian/Diana)

Stretch Goals:
- Password requirements (ex: 12 char min), hashing password

5 APIs:
- NBA Player API
    - Name/Age/Stats (display players with cards - Bootstrap)
- Fake-Store API
    - Items one of the players will give to the other player
- Yes/No API
    - Return a GIF
- Love Calculator API
    - Calculate the likelihood of the two players working out
    - If previous answer was yes, multiplier for percentage (~1.5x)
- NFL Schedule API
    - Use the times to schedule a date between NBA player

FEF: Bootstrap because the aesthetic is nicer, has cool features like cards, which is useful for our specific storytelling and characters.

Storyline:
Two NBA players try to start a relationship -> one of them tries to buy something for the other person -> yes/no to see whether the other person likes it -> love calculator to see compatibility -> if compatibility/percent is high enough, we use NFL schedule to schedule a date.

- Each step/scenario will be on the same page (home.html). With each progression, more elements will display on home.html.