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Software Development

Period 9

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Project Manager: Michela

Components

Back End

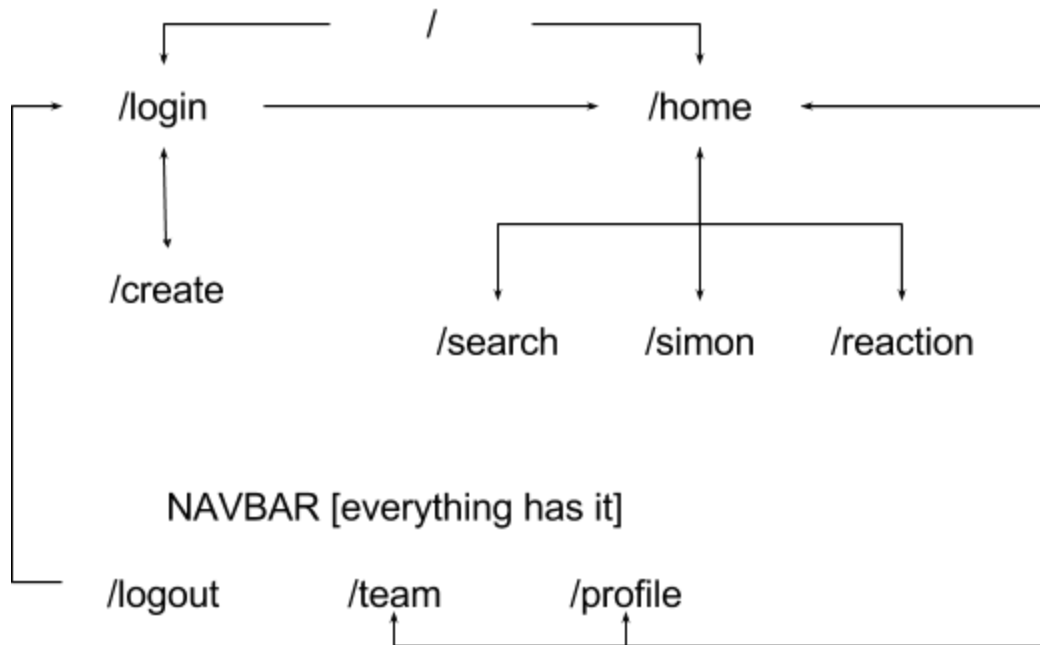
- main.py
 - Flask app
 - Routes
 - /
 - If not logged in redirects to login, else redirects to games
 - /login
 - Allows people to login or create new account
 - /logout
 - Logs a user out
 - /create
 - Allows a user to create an account
 - /home
 - Homepage
 - Shows games
 - /search
 - Word search
 - /reaction
 - Reaction timer
 - /simon
 - Simon says
 - /profile
 - Shows a player's profile information and stats
 - /team
 - Shows a team's players and stats
- db.py
 - Contains methods to interact with the database

Front End

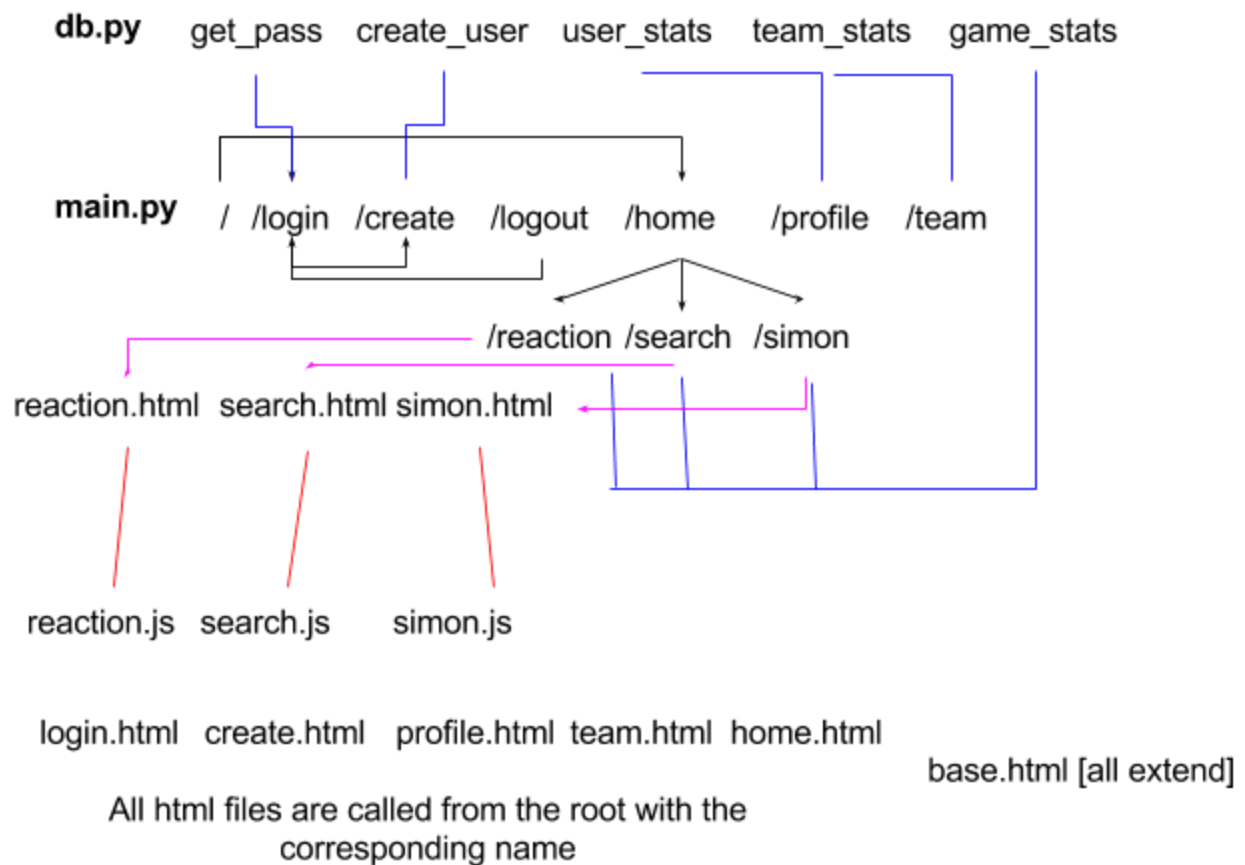
- base.html
 - Base html template all the other pages extend
 - Includes navbar, optional buttons that may show up based on user's login state, such as "Log In", "Logout", "Profile", and "Team."
- login.html
 - Text boxes for username and password and a submit button

- create.html
 - Text boxes to input username and password and a submit button
- home.html
 - Shows all the games available, takes user to proper game route when clicked.
- search.html + search.js
 - Word search game
 - Word search game is comprised of a table of letters with random words scattered throughout, the user must search for these words by clicking on the letters and then “submitting their discovery.” If validated, the word has been considered to be found, and score is based on time it takes for the user to find all words.
- reaction.html + reaction.js
 - Reaction timer game
 - User clicks on the screen when the screen changes color, reaction time is measured between color change and the click event. Score is calculated based on time.
- simon.html + simon.js
 - Simon says game
 - Four differently-colored divs light up and play tones in a specific order, adding one more note with each round. Four buttons corresponding to the divs are then to be pressed in the same order by the user in order to progress to the next round. Once the user’s memory fails and they make a mistake, the number of completed rounds is used to compute the user’s score.
- profile.html
 - Profile page for a player → contains info (name, etc) and stats
- team.html
 - Team page → shows all players on team and team stats
 - (If we continue with “challenge” idea, would show which other teams the current team is challenging.)

Site Map



Component Map



DB Schema

Accounts

PRIMARY KEY TEXT username	TEXT password	BLOB image
michelamar	fourwordsalluppercase	<i>[Raw Image Data]</i>
melsharawy	ONE_WORD_ALL_LOWERCASE	<i>[Raw Image Data]</i>

Scores

TEXT game	TEXT username	NUMERIC highscore
simon	melsharawy	900
reaction	kkhan	1000

Teams

TEXT teamname	BLOB image	TEXT members
athenians	<i>[raw image data]</i>	'[melsharawy, kkhan, slin, dw]'
spartans	<i>[raw image data]</i>	'[michelamar, tbm, davidmholmes.net]'

APIs

Randomtext.me - Example API call: <http://www.randomtext.me/api/gibberish/p-1/1000>

- This API generates random words (the gibberish tag makes them english words and not lorem ipsum, this specific call outputs 1000 randomly generated words) for the word search game!

Plan

Project Manager - Michela Marchini

Javascript + Frontend - Mansour Elsharawy & Stanley Lin

Database - Khinshan Khan

Flask app - Michela Marchini

Stretch

- Connect 4
- Messenger basketball game
- Team vs team