

Project 02: The Final One

POKÉTEAMS

TEAM PIGGY MY JIGGY KINDLY

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DESCRIPTION

A site that allows users to select different Pokemon by name and tags (abilities, characteristics) to create teams and displays the team's weaknesses and strengths. These teams can be uploaded to a forum where other users can upvote and comment on them. Top teams will be featured on the home page.

COMPONENTS

HTML files

See 'Routes' section for details

CSS Stylesheets

Bootstrap's as well as our own

poke.db

Contains user credentials and favorites, team information, and pokemon info.

db.py

Handles the database, including team favoriting, login information, and pokemon information. See 'Database Schema' for more details.

main.py

Flask app, handles front-end navigation and operations. See 'Routes' for more details.

api.py

Handles API calls and extracting information from Pokéapi.

team.js

Javascript for /editteam and /createteam. When a pokemon is hovered over, a tooltip displays the pokemon's stats. When a pokemon is added or removed, team statistics will live-update.

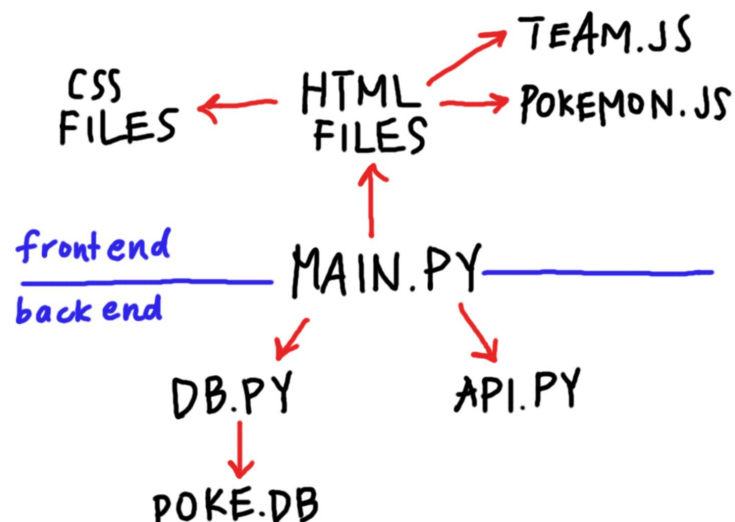
pokemon.js

Javascript for /editpokemon. When EV and IV values are changed, HP will live-update.

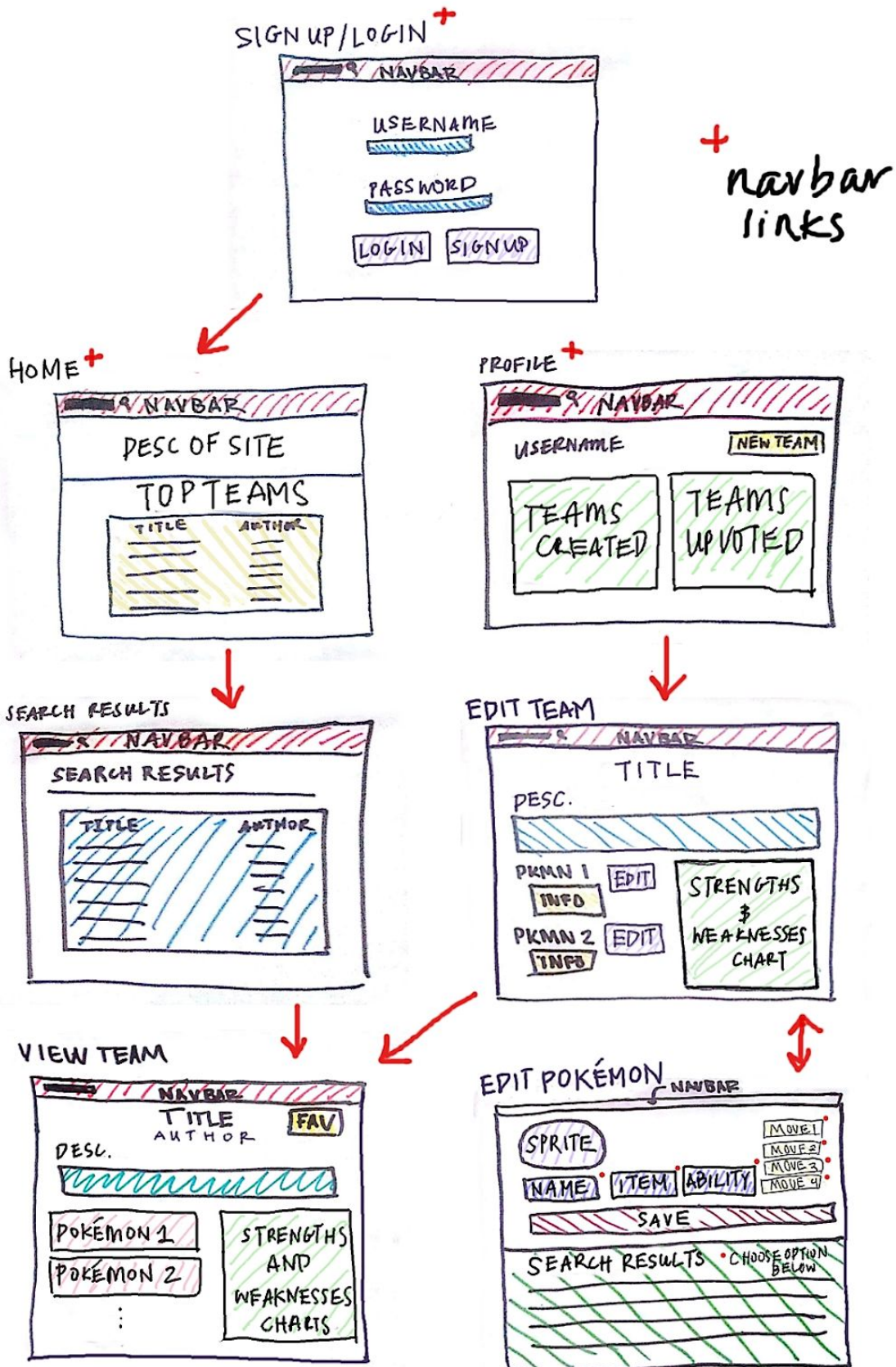
ROUTES

- **/**
The front page, which will display a description of the website, along with some basic information you need to know. It will also contain the current top 10 teams (based on upvotes).
- **/login**
Login page for username and password input. Contains button to go to /signup.
- **/signup**
Page to create an account, with username, password, and confirm password. Contains button to go to /login.
- **/profile?user=**
Page for the profile of a given user. Contains the teams which the user has created and upvoted.
- **/search**
Contains the search page, either search by team name or author.
- **/createteam**
Page to create a new team.
- **/editteam?teamid=**
Page to edit an already existing team.
- **/editpokemon?pkmnid=**
Page to edit the stats of pokemon to be added onto a team.

COMPONENT MAP



SITEMAP



DATABASE SCHEMA

users table

The users table will store the user's username, password, and favorites. The favorites column will store a string of comma separated favorited teams, e.g "0, 2, 5, 3".

teams table

The teams table will store a team's id, author, name, version, pokemon, strengths, and weaknesses.

pokemon table

The pokemon table will stores a Pokemon's id, teamid, species, gender, level, ability, moves, stats, happiness, shiny

users	teams	pokemon
username *PRIMARY KEY	teamid *PRIMARY KEY	pkmnid *PRIMARY KEY
password *encrypted	username	teamid
favorites *string of list	name	species
	version	gender
	weaknesses *string of list	level
	strengths *string of list	ability
		moves *string of list
		item
		nature

$$HP = \left\lfloor \frac{(2 \times Base + IV + \lfloor \frac{EV}{4} \rfloor) \times Level}{100} \right\rfloor + Level + 10$$

ROLES:

Michael (Project Manager): API Handling/Integration

Jake: Front end

Kristin: Flask app/API Handling

Philip: Databases