

# 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.

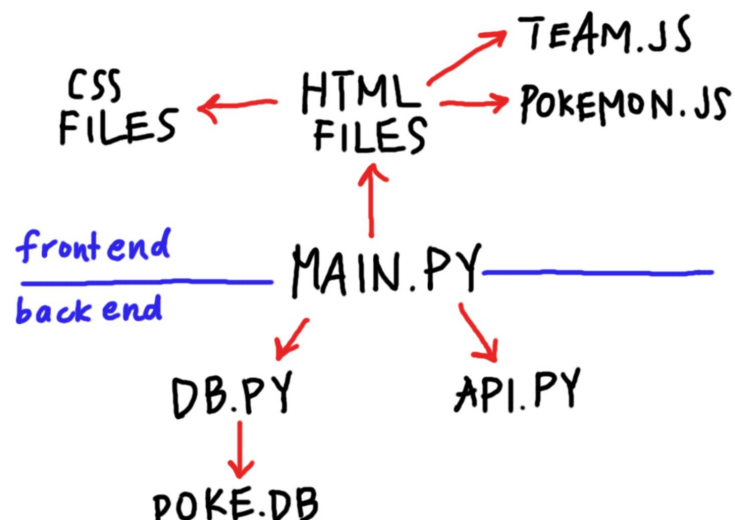
### pokemon.js

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

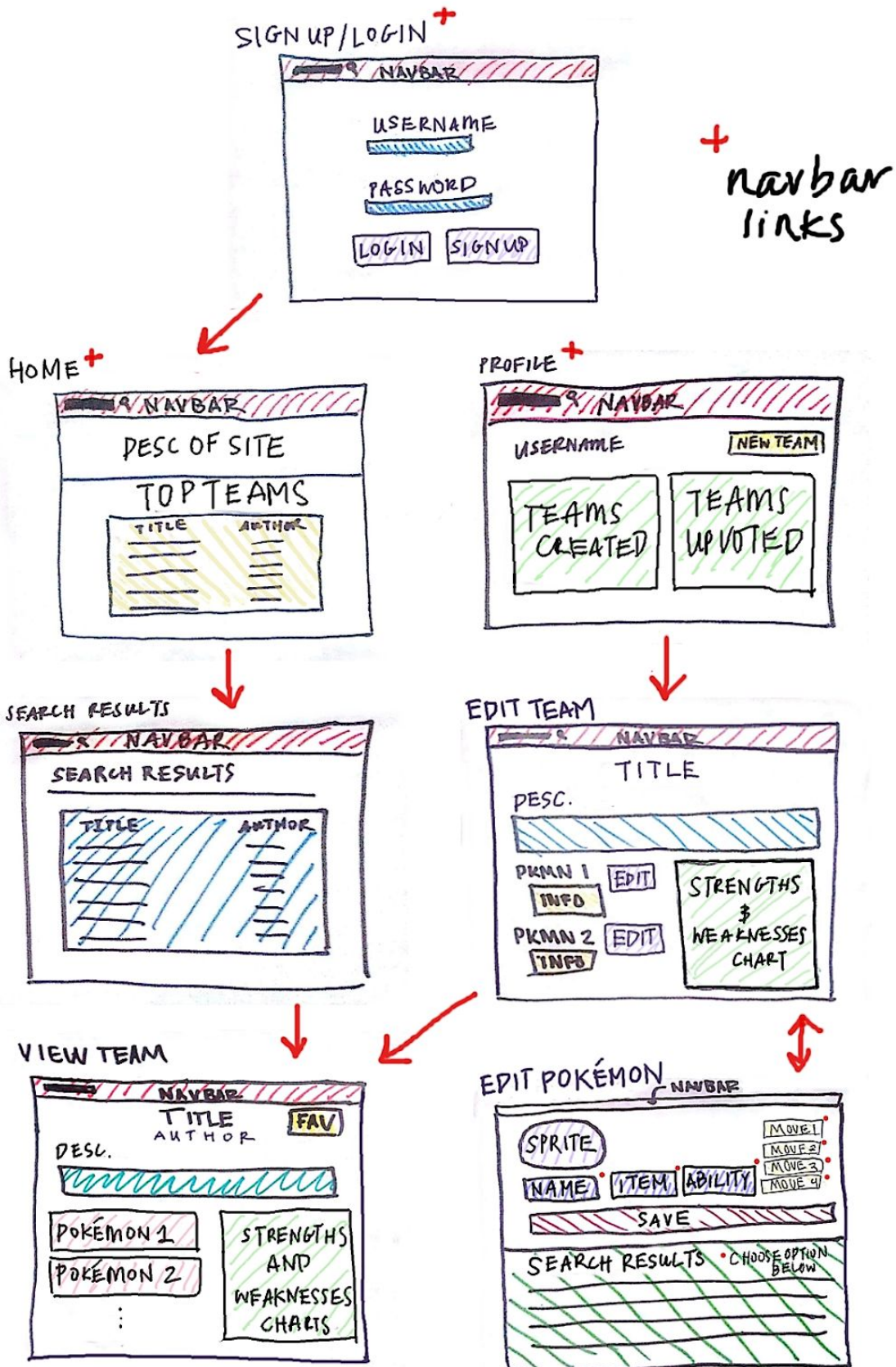
## ROUTES

- **/**  
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. Results displayed on same page
- **/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