The Pokeymen

Overview:

The purpose of this project is to present data about Pokemon on a website. The primary user interaction will use search queries to retrieve Pokemon information from an API, storing said information in a database, and having a detailed page generated for each Pokemon.

The project starts with a homepage, which contains an overview of each application and contains directories to each one.

The primary application we have working is the Pokedex that displays, retrieves, and stores information about Pokemon. Within this application, we have the PokemonList, which lists out all the Pokemon. Within PokemonList, users have the option to click on the name of the pokemon they want to learn more about. They can also create a pokemon by selecting the pokemon in the dropdown and clicking “Add to Pokedex”. They can filter through the search bar by typing the name in the search field. We also have PokemonDetail, which gives more in depth information about each specific pokemon. Within PokemonDetail, users have the ability to delete the pokemon.

The other application is Type. Similarly to Pokedex, this application displays, retrieves, and stores information about all of the Types present in Pokemon. It contains TypeList, which lists out all of the types and its images. It also contains TypeDetail, which contains information on things like damage relations specific to each type. The TypeDetail page also allows the user to compare two pokemon and have them “battle,” which compares how the types of the pokemon will interact.

API Used:

- https://pokeapi.co/

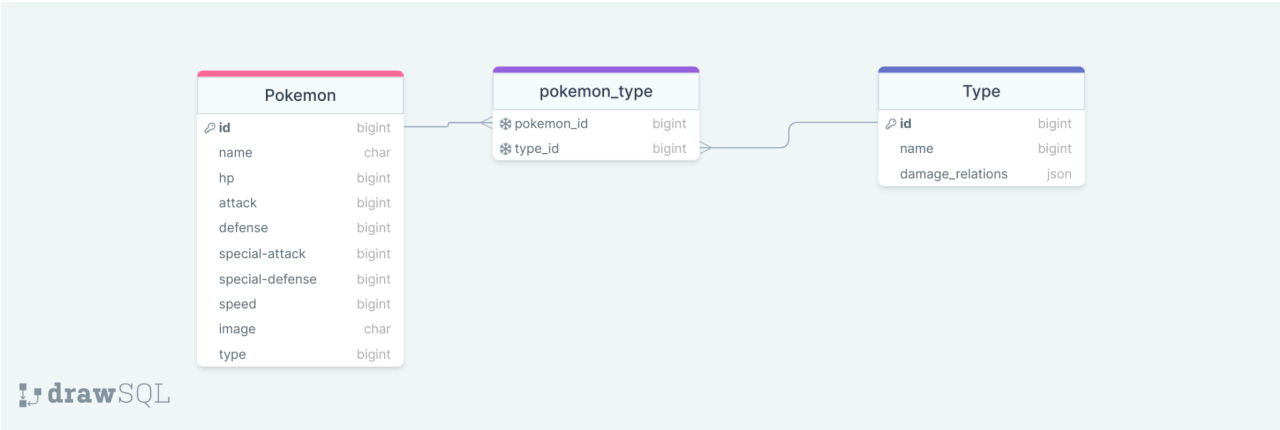
Applications:

- Home Page:
    - Basic homepage related to a single index view. Will describe each application and will link to each application.
    - The base template will also contain a basic navigation bar for each application.

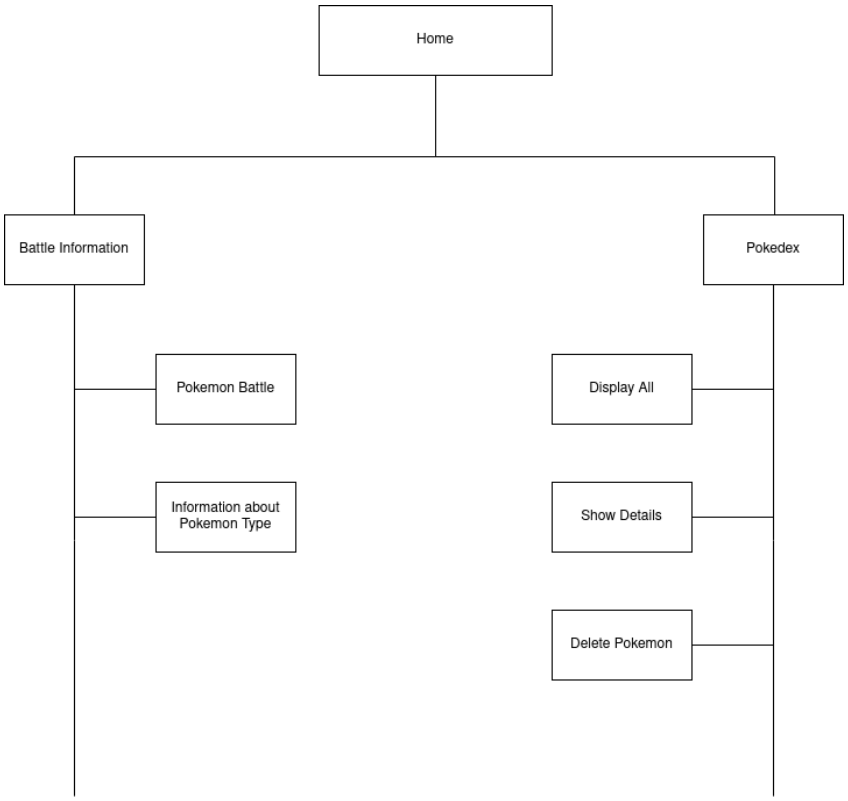
- Pokedex:
  - Overview:
    - This is the primary application with the highest priority. It contains the models that will be used to interact with other applications, and the Pokedex application is the only application that will allow the user to interact with the database.
  - Views:
    - ListView: Display all Pokemon within the database.
    - DetailView: Specifically show details for a Pokemon in the ListView.
    - Delete views: Option for users to remove data in the database. An edit view is not planned, as the user should not be able to manually edit information from the database.
  - Models:
    - Pokemon: Model for containing pokemon data, with fields such as name, stats, type, etc.
    - Type: Many-to-many relationship with Pokemon (each pokemon can have multiple types, and each type can have multiple pokemon). Might expand additional functionality for displaying information about type functionality in views separate from Pokemon.
  - Actions:
    - Initial data button: Calls multiple API calls to retrieve data for all types to fill the type model, and some to fill initial Pokemon data.
    - Pokemon Detail: User clicks on the name of a specific pokemon in the table to learn more about it in its detail view.
    - Add pokemon: The user types a Pokemon name to filter the dropdown menu. The user then clicks on the name of the pokemon in the dropdown and clicks “Add To Pokedex” to add it.
- Battle information:
  - Overview:
    - Application to display information on different Pokemon interactions and type interactions.
    - Has less priority than the Pokedex application, and is currently less planned out for how it will exactly function.
    - Development will be relatively spontaneous compared to the Pokedex.
  - Views:
    - PokemonBattle: Takes two pokemon (that exist in the Pokemon model) and displays information about their type advantages / matchup.
    - TypeInformation: Takes a type specified from the user and displays information about its strengths and weaknesses against other types.

    - TypeList: Lists all of the types and its images, along with a clickable link to each one that links to TypeInformation specific to the type
- Models:
    - Pokemon and Type models listed in the Pokedex application.
- Actions:
    - Buttons to interact with the PokemonBattle and TypeInformation views.

Database Design:



Site map:



Project task assignments:

- Aesthetics/Looks:
  - CSS: Marcus
  - Bootstrap: Marcus
- Home page application:
  - The Homepage: Marcus
- Pokedex application:
  - API/Python/Django functionality: Logan
  - Javascript/user interaction: Jonathan
  - HTML/Templates: Calvin