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. Other potential applications can include other relevant information, such as type data, moves, and other characteristics of Pokemon.

The primary application we plan to have working is the Pokedex to display, retrieve, and store information about Pokemon.

Applications with less priority, but are planned if we have enough time, include a Pokemon battle application, information on move data, dedicated type data pages, and a system to store favorite Pokemon.

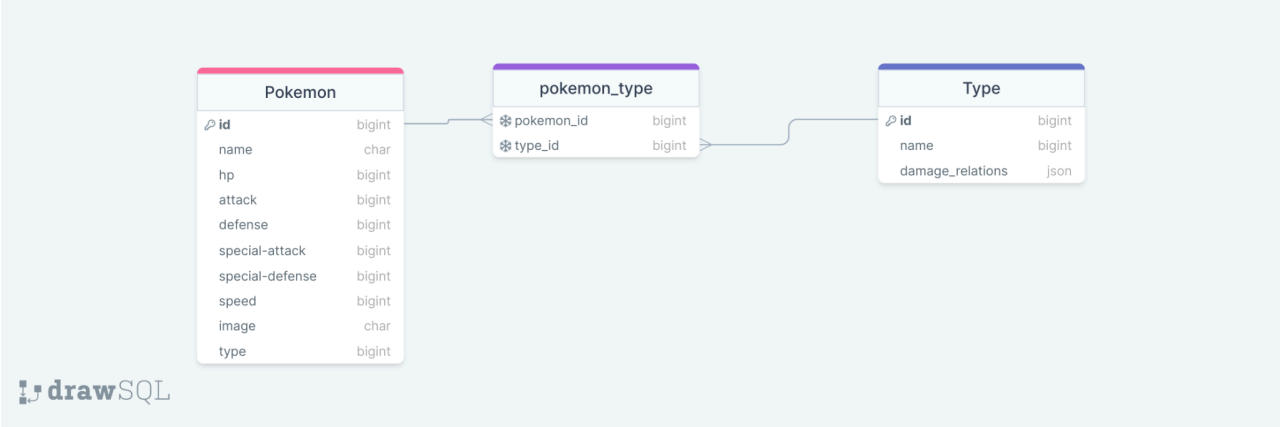
Applications:

- 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.

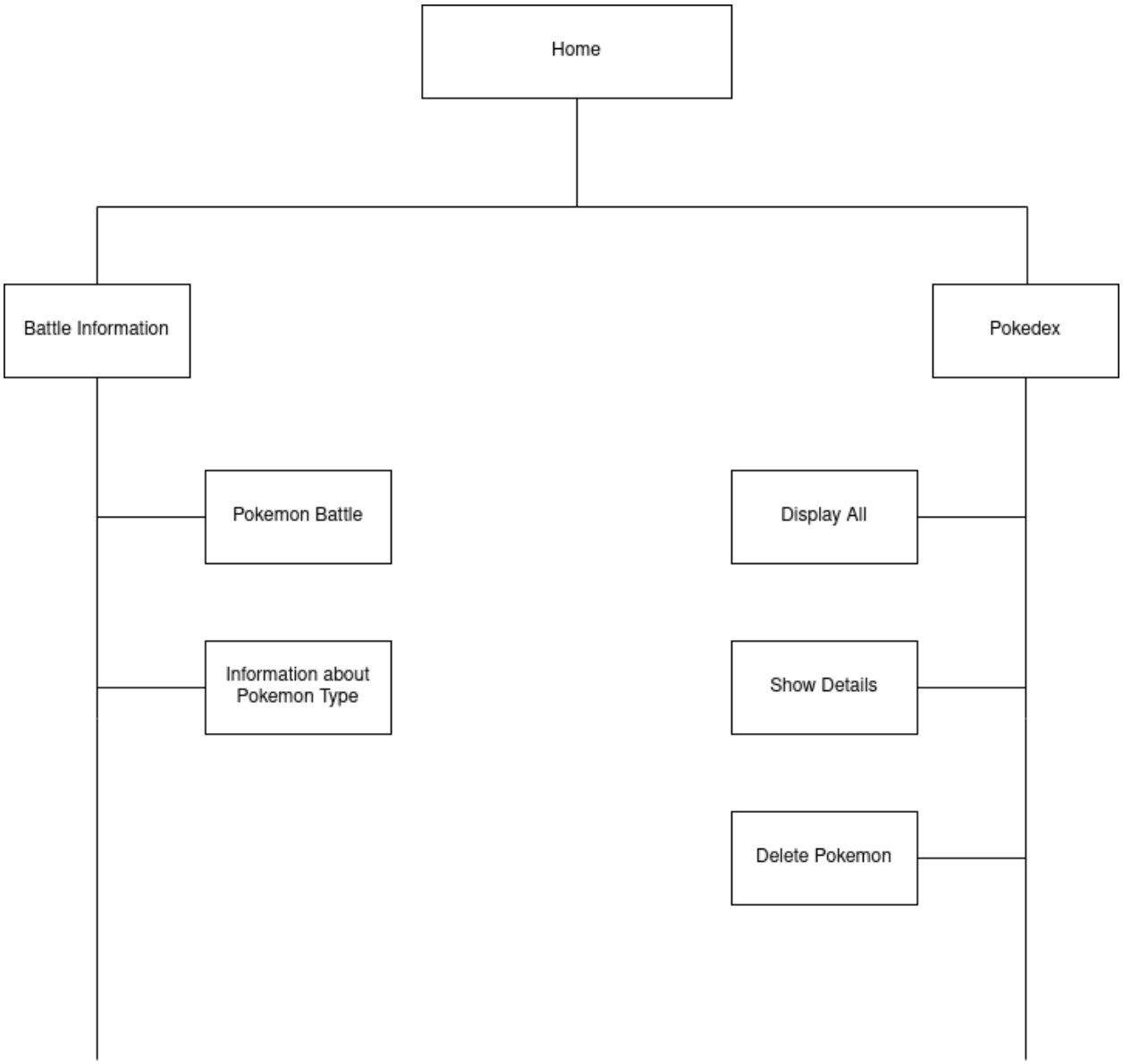
- Models:
    - Pokemon: Model for containing pokemon data, with fields such as name, stats, type, etc.
    - Type: Many-to-many relationship with Pokemon (each pokemon can have multiple types, and each type can have multiple pokemon). Might expand additional functionality for displaying information 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.
    - Search for Pokemon: Searches the existing Pokemon model for the specified Pokemon and returns a DetailView of the result.
    - Add pokemon: The user types a Pokemon name and clicks a button; an API call is made and stores the information in the database.

- 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.
    - 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:

Other application task assignments will be included if we have time after completing these tasks.

- Aesthetics/Looks:
    - CSS: Marcus
    - Bootstrap: N/A (we will figure it out later)

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