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PokeGoBDB
Functional Specifications
Last Updated: October 13,2016

Overview

PokeGoBDB is a computer program that provides the user Pokemon information specifically relating to battles. The program allows users to obtain the attributes of a Pokemon as well as compare the the effectiveness of a Pokemon against other Pokemon.

This spec is a work-in-progress. It will be revised before being finalized.
This spec does not discuss the algorithms used for calculating the effectiveness. It simply discusses what the user sees when they interact with **PokeGoBDB**.

Scenarios

Scenario 1: Ash.

Ash is a 12-year-old middle school student. He grew up playing video games, previously on home consoles but now more on his smartphone. He is the type of kid that once he gets into a video game, he tries to find out everything about it to aid him in his playing. Recently Ash got hooked on *Pokemon Go* through his friends at school. Often, their topic of conversation is about the intricacies of *Pokemon Go*. During one of their heated *Pokemon Go* conversations his friend Gary, who styles himself as a Pokemon expert, was droning on and on about which leaf type Pokemon is the best. He casually dismisses Bulbasaur. Ash mentions that Bulbasaur is actually two types. Gary disagrees with Ash and stands firm on his view that Bulbasaur is only leaf type. Ash runs **PokeGoBDB** on his computer and selects Bulbasaur in the program. On the screen is the image of Bulbasaur and next to that is the type info. It shows both leaf and poison! A shocked expression comes on Gary's face. He sulks in disgrace while Ash grins.
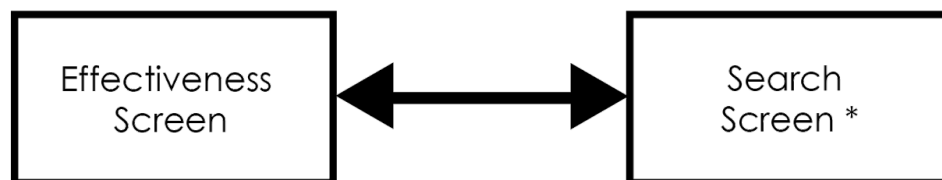
Scenario 2: Delia.

Delia is a 60-year old grandma. She worked as a nurse in a large New York hospital but recently retired. Now, she tries to visit her family, especially her grandkids, as much as she can. During one such visit to her son's home, her granddaughter introduced her to *Pokemon Go*. Delia tried it and was instantly attracted to the mechanics of the game. She downloaded the game and started playing it on her device. After a while, she encountered aspects of the game that confounded and frustrated her, preventing her from getting ahead. One major aspect was the battles. In an attempt to overcome her lack of knowledge, she researched and discovered the program ***PokeGoBDB*** which provides information on the effectiveness of a Pokemon against other Pokemon. With the program on hand, she can organize and plan her Pokemon battles strategically with a greater possibility for success.

Non Goals

- This version will not provide information on Pokemon outside of the 151 currently contained in *Pokemon Go*.
- This version will not provide or handle information on Pokemon stats that can change over the course of the game.
- This version does not support exporting or saving of information from the program.

PokeGoBDB Flowchart

Effectiveness Screen ⟷ Search Screen *

* Nice to Have

Screen by Screen Specification

Parts that are marked with an asterix * describe features that are "nice to have" and are still to-be-determined as to whether it will be including with the first release of the program.

Effectiveness Screen

The Effectiveness Screen is the first screen that is displayed when the program is run. It's purpose is to provide Pokemon attributes information as well as effectiveness information for battle.

At the top right of the Effectiveness Screen is a button labeled "About". When the user clicks on this button, a pop-up window will appear with brief documentation about the program as well as the names of the wonderful authors.

On the top of the Effectiveness Screen is an alphabetical dropdown list of the names of the 151 Pokemon that the user can select. When the user selects a Pokemon name from the drop-down the following will be displayed on the screen:
- name and image of the Pokemon
- the Pokemon's corresponding type information
- a list of Pokemon that the selected Pokemon is "effective against" during battle
- a list of Pokemon that the selected Pokemon is "ineffective against" during battle

Each time the user selects a different Pokemon from the list, the screen will be updated with the information for that Pokemon.

* If the user moves the mouse over a Pokemon in the "effective against" and "ineffective against" list, the Type information for that Pokemon appears.

* At the top left of the Effectiveness Screen is a button "Search by Type". Clicking on this button will bring up the Search Screen.

*Search Screen

The Search Screen allows the user to search for Pokemon by Type. In *Pokemon Go*, there are 18 possible Types and a Pokemon have up to two Types.

The top left of the Search Screen is the "Effectiveness" button and the top right is the "About" button. Clicking the "Effectiveness" button will bring the user back to the Effectiveness Screen. Clicking on the "About" button will bring up a pop-up window with brief documentation about the program as well as the names of the wonderful authors.

On the left side of the Search Screen are two dropdowns. Dropdown #1 has the 18 possible Pokemon Types as options:
- Bug
- Dark
- Dragon
- Electric
- Fairy
- Fighting
- Fire
- Flying
- Ghost
- Grass
- Ground
- Ice
- Normal
- Poison
- Psychic
- Rock
- Steel
- Water

Dropdown #2 has all 18 Pokemon Types as options plus two more:
- None
- Does Not Matter

Below the two dropdowns is a "Search" button. After the user has selected from the two Type dropdowns and clicks on the "Search" button the search results, an alphabetical list of Pokemon that matches the search, will be displayed on the right side of the screen. If there are no matches, a "No Matches Found" message will be displayed there instead.