

Our application works by connecting to a designated MySQL server, and then providing a simple terminal interface. This interface allows the user to select an operation from a list of operations we provide, and are described below:

- help
 - o This is a default option to assist the user to understand what commands are available
- quit
 - o This option terminates the application, and closes the connection
- 0
 - o This option allows the user to enter the Type of a Pokemon that they wish to find Pokemon who have a type advantage against. For example, in the Pokemon games Fire has an advantage against Grass. If the user had entered "Grass", the result would include Fire type Pokemon, among others.
- 1
 - o This option allows the user to update the Description of a given Pokemon. The user must enter the name of the Pokemon they wish to update the description of. The function then checks to verify that the Pokemon exists. If it does not, the program kills the function and informs the user of the error before asking for input again. If it does exist, the program will prompt the user for the new Description.
- 2
 - o This option allows the user to easily retrieve the Pokemon Name, National ID, and Description for all Pokemon in the table.
- 3
 - o This option allows the user to add a new Pokemon to the database. First, the function prompts the user for all the attributes in the Pokemon table. Assuming that this succeeds the function then requests Type, Ability, and Nature information. The function verifies that the given information is valid before accepting it. For example, the user cannot give a Type of "Spooky" since "Spooky" is not a type. Given that there may be more than response to each of these fields, the function loops until the user is satisfied. From there, the function asks for information about the Moves that the Pokemon can learn. It does this through TMs and MoveSet. In a sense, each table affected is treated as a transaction of sorts. If the function fails at any point, then everything will be lost.
- 4
 - o Silly function to print a quote from the show (does not count for the 5 operations)
- 5
 - o This option allows the user to query everything known about a specific Pokemon from the database. This includes all information from each of the tables that relates to the Pokemon. This is essentially all the information that Option 3 asks for.
- *default*
 - o Prompts the user informing them that their option choice was invalid.