PokéData

Group 5: I211 Final Project

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Problem Statement: Fans of the Pokemon Franchise need to be able to reference all the available creatures for catching, in order to be sure they've completed the game. The database players are using should be easy to understand, and not overwhelm them with data until they click a specific Pokemon.

Solutions: What makes our site different from other similar sites is that our site will not only include the basic information about each Pokemon, but will also include what level each pokemon learns a new move and when they evolve. Our site will be the ultimate guide for Pokemon lovers.

Topic and main features of the application and data integration: The topic and main features we plan on having come in as a search bar to be able to look up different pokemon and list their abilities. We will also include a drop down menu that will let the users select which type of pokemon that they are looking for.

Team's plans on how the technical requirements will be satisfied by the application:

Program the application with the OOP programming approach.

Our program will use Object Oriented Programming by using an interface to create **items**, such as berries, badges, moves, machines (HM & TM), etc… Also we'd use inheritance to create **Pokemon** structure, such as "ID, Name, Description" then pass those data members down to specific classes, where we can specify rare Pokemon, common, and legendary.

Design the system with the MVC pattern.

We will use the Model, View, Controller pattern on our project to display data. The **View** component will allow the user to filter Pokemon by type, or click an instance of a Pokemon from the 151 entries. The View will then alert the **Controller** of the event triggered by the user, and update the Model. The **Model** will then grab the data the user selected, and update the View screen to display that information.

Enhance interactivity and usability with AJAX.

Our project will use AJAX requests to filter Pokemon by **types**, a lot like the weather records application. If the user selects the type of “Fire”, then only Pokemon who belong to the fire type will be displayed.

Store data in a MySQL database system.

We will use a SQL database to store all 151 Pokemon, berries, moves, machines, items, and etc…

Team Responsibilities:

All three group members will be working on the PHP code for our project. Kameron will be focused on the styling for the website, Dillon will be focused on the MVC, and Da'Trell will be focused on the database. These roles are for structure, but we plan to help each other out on these tasks if need be.