

# Pokemon Information

## Documentation

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# 1.Introduction

This document provides the detailed technical specifications of the Pokemon Information system

## 2.Project Overview

Pokemon Information is a platform to allow users to query the database and perform the following actions

1. Get a Pokémon's data by ID
2. Get a Pokémon's data by name
3. Get a list of all Pokémons (Nice to have: Pagination)
4. Get a list of all Pokémons with different filters applied (e.g. type, weight, etc.)
5. Get all Pokémon types
6. Mark a Pokémon as favorite
7. Unmark a Pokémon as favorite
8. Get a list of all favorite Pokémons

## 3.Software Requirements

1. Node js
2. DB - Sql server
3. Jqgrid

## 4. How to set up the application?

### 4.1. Prerequisites

- Make sure TCP/IP protocol enable in the SQL server network configuration (Click Windows+R and run compmgmt.msc in computer management select SQL server network configuration)
- Right click TCP/IP and click properties then set the TCP port to 8090

### 4.2. Application

- Clone the source code from the github repository and locate folders into the project directory
- Change the database configuration in **dbconfig.js** file according to your local database.
- Go to the project directory using command prompt and run **npm install**
- Go to the project directory using command prompt and run **npm start**.
- Then double click the **Main.html** file in the main project folder.
- You will be directed to the Pokemon information website.
- Entry point to this project is **api.js**

## 5. System Access

### SQL Server Configurations

#### 5.1 database

**Database Name :** PokemonDB

**Credentials :**

## 6. Code Base Access

GitHub

**Repository:** <https://github.com/Udanie-sys/PokemonInformationProject.git>

**Branch:** master

## 7. Microsoft SQL Server

Sql server configurations are in following path

*Pokemoon > config > dbconfig.js*

## 8. System Functionalities

### 8.1 Upload Pokemon JSON file

**Steps:** Select pokemons.json file in the `C:\\PokemonProject\\Pokemon\\pokemons.json` Project location and click upload button. All pokemon data will be uploaded to the database.

#### Upload JSON File

No file chosen

The screenshot shows a web application titled "Pokemon Information". On the left, there is a sidebar with three blue buttons: "View All Data", "View Favourite Pokemons", and "View Pokemon Types". The main content area on the right has a section titled "Upload JSON File" which includes a "Choose File" button (with "No file chosen" text next to it) and an "Upload Data" button. Below this, there are two search sections. The first section has a text input field labeled "Search By Name.." and a "Search Name" button. The second section has a text input field labeled "Search By ID.." and a "Search ID" button.

*Api:* <http://localhost:8090/api/upload>

## 8.2 Get a Pokémon's data by name

Steps: Enter name in the text field and click search name button  
System will display entered pokemon's data

This close-up shows the "Search By Name.." text input field and the "Search Name" button.

*Api:* <http://localhost:8090/api/name/:nameValue>

## 8.3 Get a list of all Pokémons (Nice to have: Pagination)

Steps: Select view data button System will display list of all  
Pokemon's data

This close-up shows the "View All Data" button located in the sidebar.

Favourite Po	id	name	classifi	types	resistant	weaknes	minimumWeig	maximumWeig	minimu
<input type="checkbox"/>	10	Caterpie	Worm Pokémon	Bug	Grass,Fighting,Ground	Fire,Flying,Rock	2.54kg	3.26kg	0.26m
<input type="checkbox"/>	104	Cubone	Lonely Pokémon	Ground	Electric,Poison,Rock	Water,Grass,Ice	5.69kg	7.31kg	0.35m

## Pokemon Information

View All Data  
View Favourite Pokemons  
View Pokemon Types

Upload JSON File  
 pokemons.json  
  

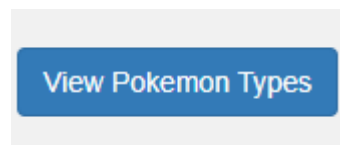
Successfully Uploaded!

Favourite Po	id	name	classifi	types	resistant	weaknes	minimumWeig	maximumWeig	minimumHeig	maximum
<input type="checkbox"/>	1	Bulbasaur	Seed Pokémon	Grass,Poison	Water,Electric,Grass,Fighting,Fairy	Fire,Ice,Flying,Psychic	6.04kg	7.76kg	0.61m	0.79m
<input type="checkbox"/>	2	Ivysaur	Seed Pokémon	Grass,Poison	Water,Electric,Grass,Fighting,Fairy	Fire,Ice,Flying,Psychic	11.38kg	14.63kg	0.88m	1.13m
<input type="checkbox"/>	3	Venusaur	Seed Pokémon	Grass,Poison	Water,Electric,Grass,Fighting	Fire,Ice,Flying,Psychic	87.5kg	112.5kg	1.75m	2.25m

Api: <http://localhost:8090/api/pokemons>

## 8.4 Get all Pokémon types

Steps: Select view Pokemon's types button. System will display all available pokemon types



api:<http://localhost:8090/api/pokemonTypes>

## 8.5 Mark a Pokémon as favorite

Steps: select view all data button.

Then mark favourite pokemons in the grid. Marked pokemons will be saved to the database

Favourite Pol	id	name	classifi	types	resistant	weaknes	minimumWeig	maximumWeig	minimum
<input checked="" type="checkbox"/>	10	Caterpie	Worm Pokémon	Bug	Grass,Fighting,Ground	Fire,Flying,Rock	2.54kg	3.26kg	0.26m

## Pokemon Information

View All Data
View Favourite Pokemons
View Pokemon Types

Upload JSON File
 No file chosen

Favourite Pol	id	name	classifi	types	resistant	weaknes	minimumWeig	maximumWeig	minimumHeig	maximumHeig
<input checked="" type="checkbox"/>	1	Bulbasaur	Seed Pokémon	Grass,Poison	Water,Electric,Grass,Fighting,Fairy	Fire,Ice,Flying,Psychic	6.04kg	7.76kg	0.61m	0.79m
<input checked="" type="checkbox"/>	2	Ivysaur	Seed Pokémon	Grass,Poison	Water,Electric,Grass,Fighting,Fairy	Fire,Ice,Flying,Psychic	11.38kg	14.63kg	0.88m	1.13m

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## 8.6 Unmark a Pokémon as favorite

Steps: select view all data button.  
Then unmark selected pokemons in the grid

<input type="checkbox"/>	104	Cubone	Lonely Pokémon	Ground	Electric,Poison,Rock	Water,Grass,Ice	5.69kg	7.31 kg	0.35m
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## 8.7 Get a list of all favorite Pokémons

Steps: Select view favourite Pokemon's button. System will display a list of all favourite pokemons.

View Favourite Pokemons

Favourite Pol	id	name	classifi	types	resistant	weaknes	minimumWeig	maximumWeig	minimum
<input checked="" type="checkbox"/>	10	Caterpie	Worm Pokémon	Bug	Grass,Fighting,Ground	Fire,Flying,Rock	2.54kg	3.26kg	0.26m

api:<http://localhost:8090/api/favouritePokemons>

## 8.8 Get a Pokémon's data by ID

Steps: Enter ID in the text field and click search name button. System will display entered pokemon's data

Search ID

Api: <http://localhost:8090/api/id/:idValue>

## 8.9 Get a list of all Pokémons with different filters applied

Steps: Select view alldata button button. System will display a list of all pokemons in a grig. You can search data with different filters.

Favourite Pol	id	name	classifi	types	resistant	weaknes	minimumWeig	maximumWeig	minimum
<input type="checkbox"/>	10								
<input checked="" type="checkbox"/>	10	Caterpie	Worm Pokémon	Bug	Grass, Fighting, Ground	Fire, Flying, Rock	2.54kg	3.26kg	0.26m

# 9. Database Tables

- + dbo.Pokemon
  - + dbo.Pokemon\_Has\_Evolution
  - + dbo.Pokemon\_Has\_Types
  - + dbo.Types
- 
- Stored Procedures
    - + System Stored Procedures
    - + dbo.InsertPokemon
    - + dbo.UpdateFaorurite