



POKEDEX

Project & Document by
Rohit Salvi

Pokedex Project Documentation

1 Project Overview

The objective of Pokedex project is to build a portal that fetches specific Pokemon data from the Open Pokémon API and displays it on a WordPress site. Users with specific roles will be able to input Pokemon IDs in a comma-separated format, and the task will dynamically populate the WordPress site with information for the specified Pokemon.

2 System Requirements

The system requirements for the development and execution of the Pokedex are as follows.

- **Operating System:** Cross-platform.
- **Database:** MySQL 5.0 +.
- **Web Server:** XAMPP.
- **Browser Support:** Firefox, Google Chrome, Safari, Opera.
- **PHP Compatibility:** PHP 5.2+.
- **Content Management System:** WordPress.

3 Installation and Set Up

Note: These installation steps are for Windows Operating System.

3.1 XAMPP

1. Go to the following website and download the compatible XAMPP version.
<https://sourceforge.net/projects/xampp/files/>
2. After downloading the compatible XAMPP version, Install and Run it.
3. Start Apache Server and MySQL from XAMPP Control Panel.

3.2 Database

Create and Set up a database for the project by accessing phpMyAdmin through the following link.
<http://localhost/phpmyadmin/>

3.3 WordPress

1. Download the latest compatible version of the WordPress from the following link.
<https://wordpress.org/download/>
2. Once the WordPress is downloaded. Extract it in the “htdocs” directory of XAMPP.

Now the project is configured for development on the localhost.

4 Theme and Plugins

4.1 Theme

The **Astra** theme is used for the project. The Astra theme offers a lightweight and highly customizable design, enhancing website performance and providing a user-friendly experience in WordPress. Following are the steps to install and activate Astra theme.

1. Login to your WordPress Dashboard.
2. Go to ”Appearance” in the left sidebar.

3. Click on "Themes."
4. Click "Add New."
5. Search for the Astra theme.
6. Click "Install" next to the Astra theme.
7. Click "Activate" to activate the theme.
8. Customize your theme using the "Customize" option under "Appearance."

4.2 Plugins

4.2.1 Elementor

Elementor plugins are extensions that enhance the functionality of the Elementor page builder for WordPress, offering additional widgets, templates, and design elements to streamline website development. Following are the steps to install and activate Elementor.

1. Login to your WordPress Dashboard.
2. Go to "Plugins" in the left sidebar.
3. Click on "Add New."
4. Search for "Elementor."
5. Click "Install Now" next to the Elementor plugin.
6. Click "Activate" to activate the Elementor plugin.
7. Verify activation by checking the installed plugins list or looking for the Elementor menu in the WordPress dashboard.

4.2.2 Ultimate Member

The Ultimate Member plugin provides robust user profile and membership management capabilities for WordPress websites, offering features such as customizable registration forms, member directories, and content restrictions based on user roles. Following are the steps to install and activate Ultimate Member.

1. Login to your WordPress Dashboard.
2. Go to "Plugins" in the left sidebar.
3. Click on "Add New."
4. Search for "Ultimate Member."
5. Click "Install Now" next to the Ultimate Member plugin.
6. Click "Activate" to activate the plugin.
7. Verify activation by checking the installed plugins list or looking for the Ultimate Member menu in the WordPress dashboard.
8. (Optional) Configure settings by navigating to the Ultimate Member settings to customize user registration forms, member directories, and other features as needed.

4.2.3 Insert PHP Code Snippet

"Insert PHP Code Snippet" plugin by xyzscripts.com enables users to seamlessly incorporate PHP code into their WordPress pages and posts through user-friendly shortcodes, facilitating efficient integration of custom PHP functionality without the need for complex coding processes. Following are steps to install and activate "Insert PHP Code Snippet".

1. Login to your WordPress Dashboard.
2. Go to "Plugins" in the left sidebar.

3. Click on "Add New."
4. Search for "Insert PHP Code Snippet."
5. Click "Install Now" next to the "Insert PHP Code Snippet" plugin.
6. Click "Activate" to activate the plugin.
7. Verify activation by checking the installed plugins list or looking for the "Insert PHP Code Snippet" menu in the WordPress dashboard.

5 Project Implementation

Once the environment is configured and the required themes and plugins are installed and downloaded. Then build stunning and interactive UI with Elementor, user HTML blocks for search fields, Ultimate Member for user control and forms, PHP Snippet to securely fetch the data from API, script to handle error and display Pokemon details as shown in the below Images.

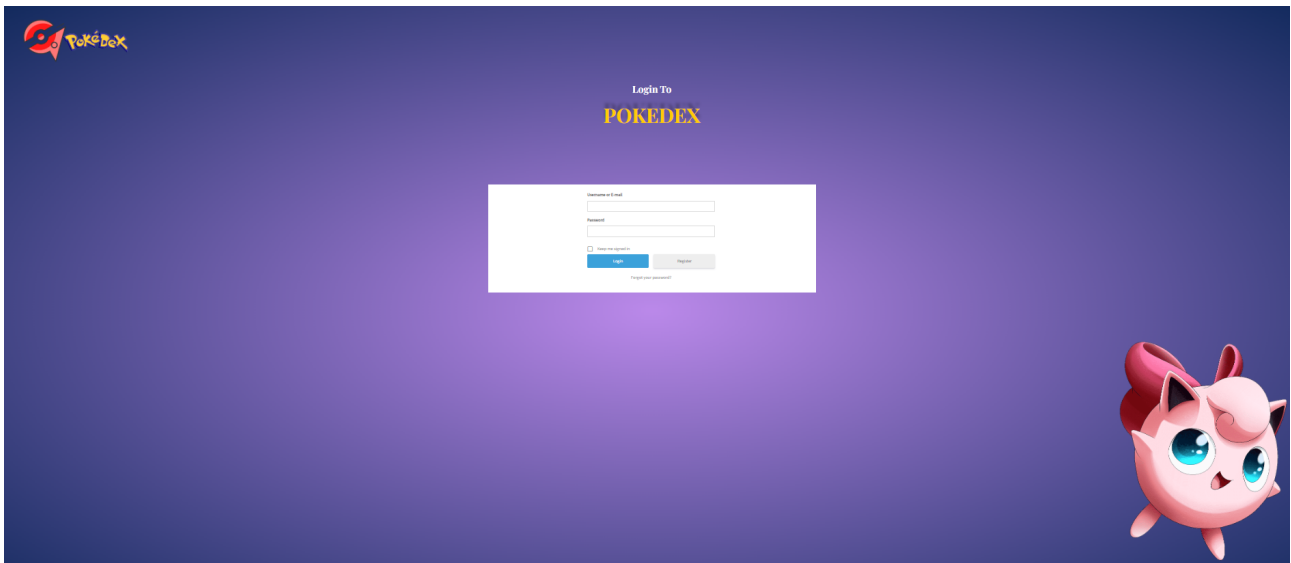


Figure 1: Login Page

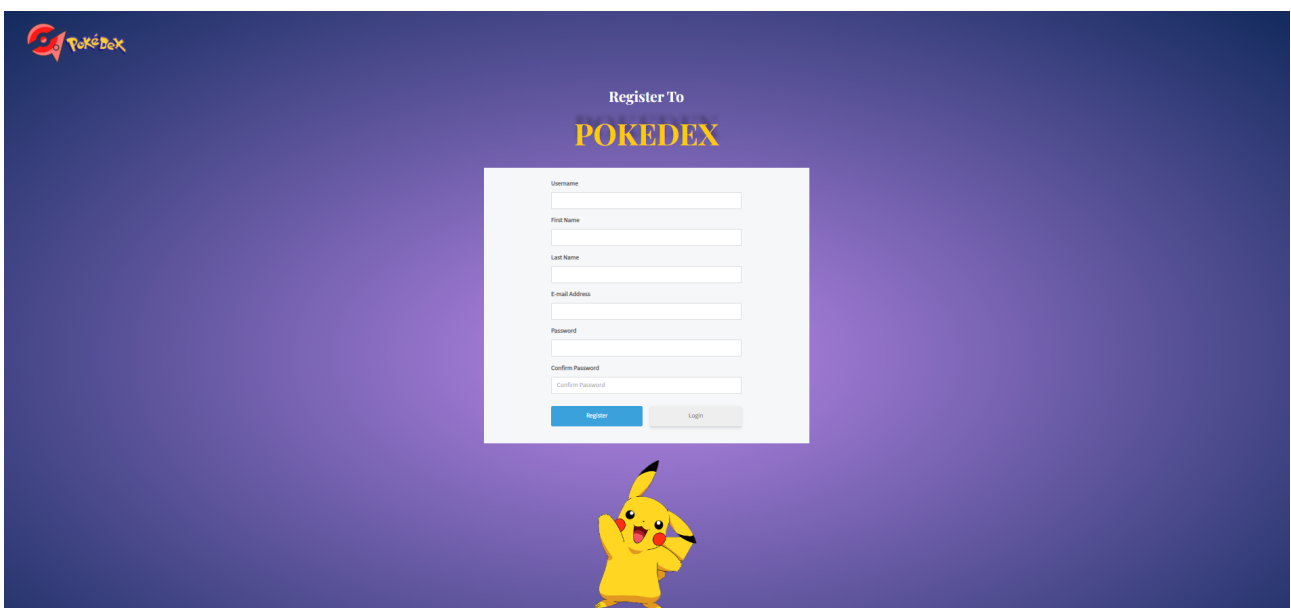


Figure 2: Register Page

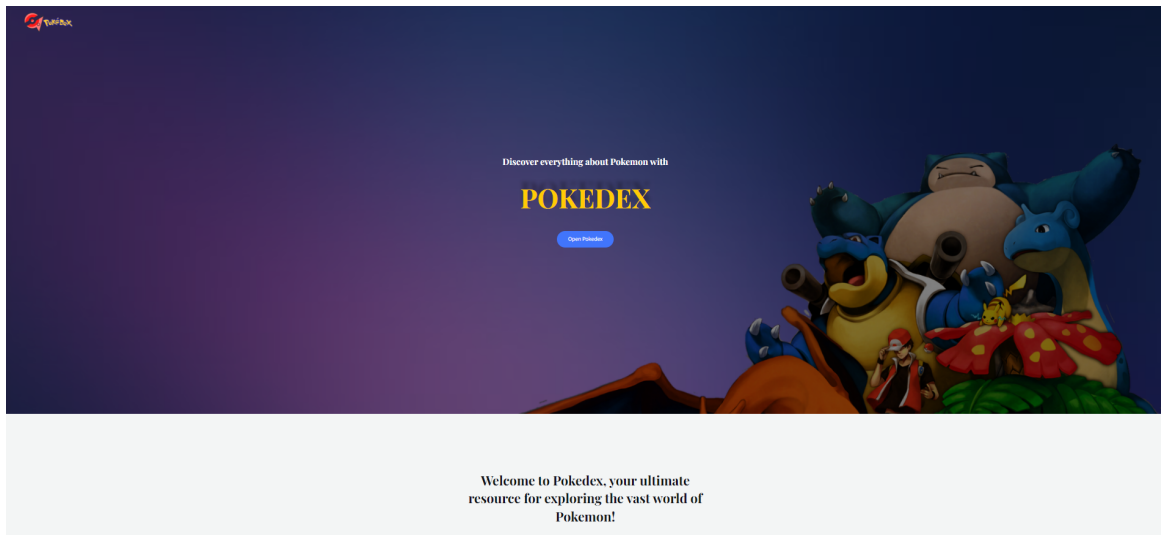


Figure 3: Home Page

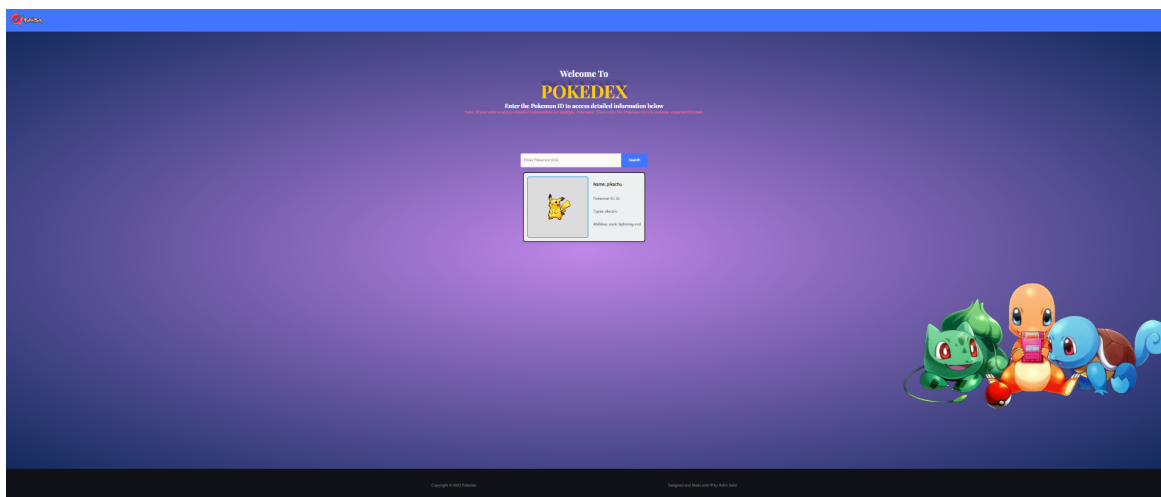


Figure 4: Pokedex Page

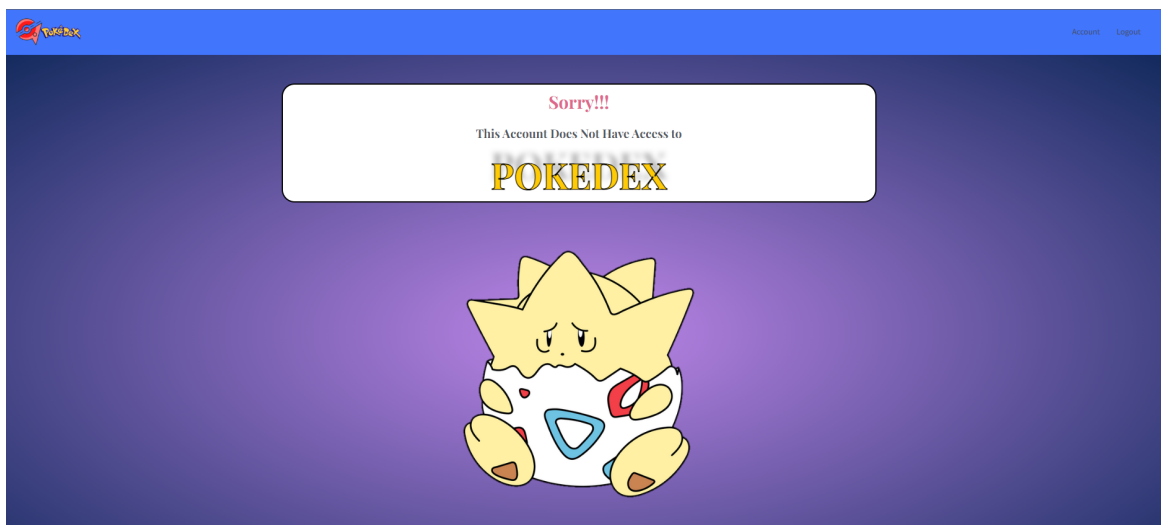


Figure 5: Access Denied Page

6 Test Cases

6.1 Scenario 1

A registered user with non-admin roles accessing Pokedex.

1. Go to Pokedex URL “http://localhost/pokedex”
2. Registered non-admin user log in with credential.
3. User is directed to the Home page.
4. User tries to access Pokedex.

Expected Result - The user gets re-directed to access denied page.

6.2 Scenario 2

A registered user with admin roles accessing Pokedex.

1. Go to Pokedex URL “http://localhost/pokedex”
2. Registered admin user log in with credential.
3. User is directed to the Home page.
4. User tries to access Pokedex.

Expected Result - Users should be able to search for Pokemon information using Pokedex.

6.3 Scenario 3

A registered user with admin roles searches for one Pokemon using a valid Pokemon ID.

1. Go to Pokedex URL “http://localhost/pokedex”
2. Registered admin user log in with credential.
3. User is directed to the Home page.
4. User clicks on open Pokedex.
5. Pokedex page is open with a search field in it.
6. User enters valid Pokemon ID and clicks search.

Expected Result - Detailed information about the Pokemon should be displayed to the user.

6.4 Scenario 4

A registered user with admin roles searches for multiple Pokemons using a valid Pokemon ID.

1. Go to Pokedex URL “http://localhost/pokedex”
2. Registered admin user log in with credential.
3. User is directed to the Home page.
4. User clicks on open Pokedex.
5. Pokedex page is open with a search field in it.
6. User enters valid Pokemon IDs in comma-separated format and clicks search.

Expected Result - Detailed information about multiple Pokemons should be displayed to the user.

6.5 Scenario 5

A registered user with admin roles searches for Pokemon using an invalid Pokemon ID.

1. Go to Pokedex URL “http://localhost/pokedex”
2. Registered admin user log in with credential.
3. User is directed to the Home page.
4. User clicks on open Pokedex.
5. Pokedex page is open with a search field in it.
6. User enters invalid Pokemon IDs and clicks search.

Expected Result - An invalid Pokemon ID message should be displayed to the user.

6.6 Scenario 6

A registered user with admin roles searches for multiple Pokemons using valid and invalid Pokemon IDs.

1. Go to Pokedex URL “http://localhost/pokedex”
2. Registered admin user log in with credential.
3. User is directed to the Home page.
4. User clicks on open Pokedex.
5. Pokedex page is open with a search field in it.
6. User enters valid as well as invalid Pokemon IDs and clicks search.

Expected Result - Detailed information about the valid Pokemon IDs should be displayed and for invalid Pokemon IDs a message should be displayed.

6.7 Scenario 7

A registered user with admin roles searches for multiple Pokemons using valid and invalid Pokemon IDs.

1. Go to Pokedex URL “http://localhost/pokedex”
2. Registered admin user log in with credential.
3. User is directed to the Home page.
4. User clicks on open Pokedex.
5. Pokedex page is open with a search field in it.
6. User enters valid as well as invalid Pokemon IDs and clicks search.

Expected Result - Detailed information about the valid Pokemon IDs should be displayed and for invalid Pokemon IDs a message should be displayed.

6.8 Scenario 8

A registered user with admin roles searches for Pokemon using invalid characters/format.

1. Go to Pokedex URL “http://localhost/pokedex”
2. Registered admin user log in with credential.
3. User is directed to the Home page.
4. User clicks on open Pokedex.
5. Pokedex page is open with a search field in it.
6. User enters add invalid characters/format in the search field and click search.

Expected Result - An invalid character or format should not be accepted and the user should be notified of it.

6.9 Scenario 9

A new or unregistered user accesses the URL.

1. Go to Pokedex URL “http://localhost/pokedex”
2. User must be able to see a Register button.

Expected Result - A new or unregistered user must be able to successfully register on the portal with a subscriber role and explore the Home page.

6.10 Scenario 10

Verifying all the above scenarios in the mobile or tablet view.

Expected Results - All the above scenarios must work as expected in the mobile or tablet view.

7 Future Implementation Scope

- Several sections such as Pokedex events, videos, merchandise and so on can be added to the Home page.
- The search field of the Pokedex can be made to make a more dynamic, complex and optimised search.
- The User Account page can be enhanced.