Pokédex

Case Study

Overview

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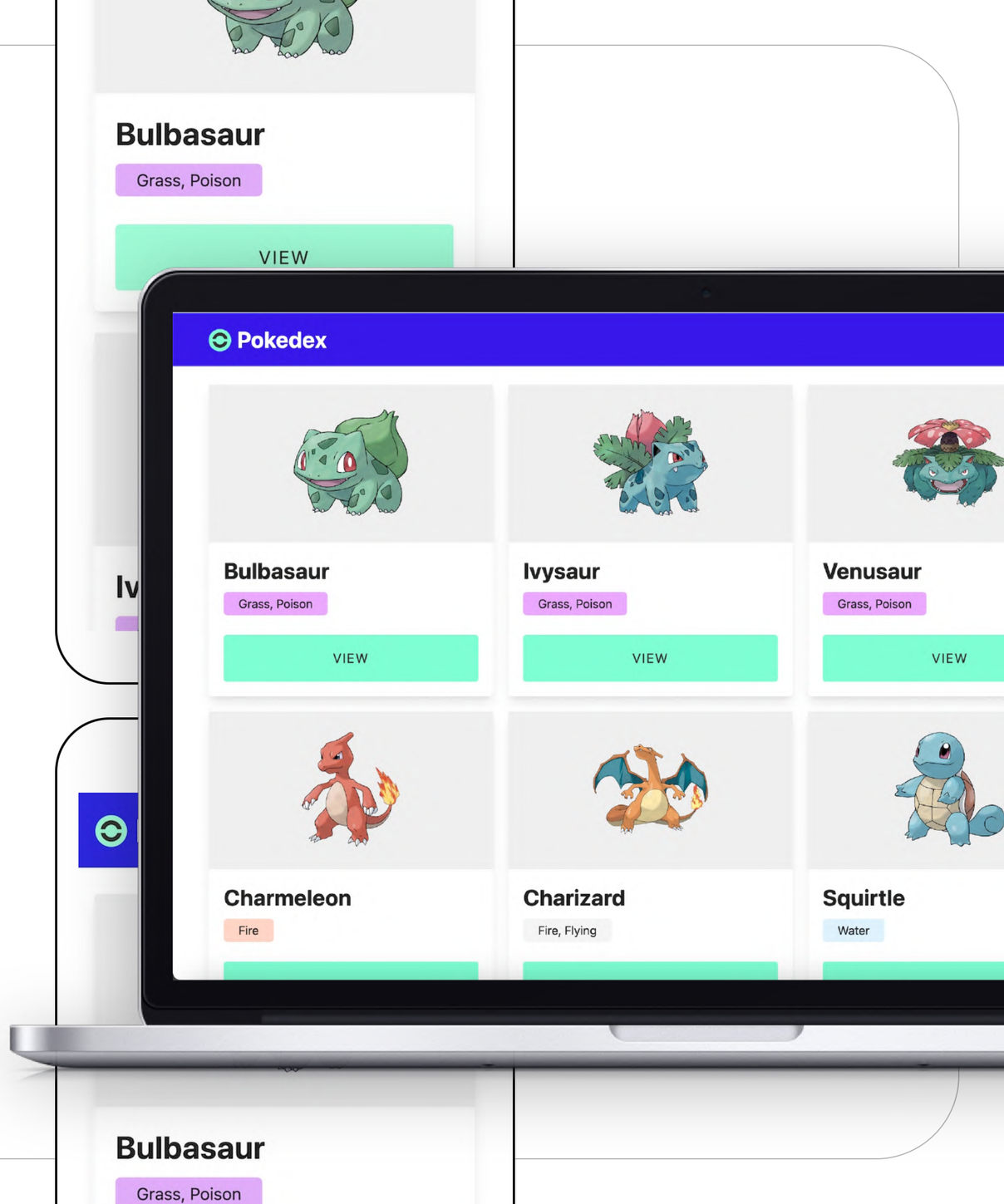
Pokédex is a small web application with HTML, CSS, and JavaScript that loads data from an external API and enables the viewing of data points in detail.



Purpose & Context

Pokédex was a project I built as part of my web development course at CareerFoundry to demonstrate my mastery of JavaScript development.

Objective

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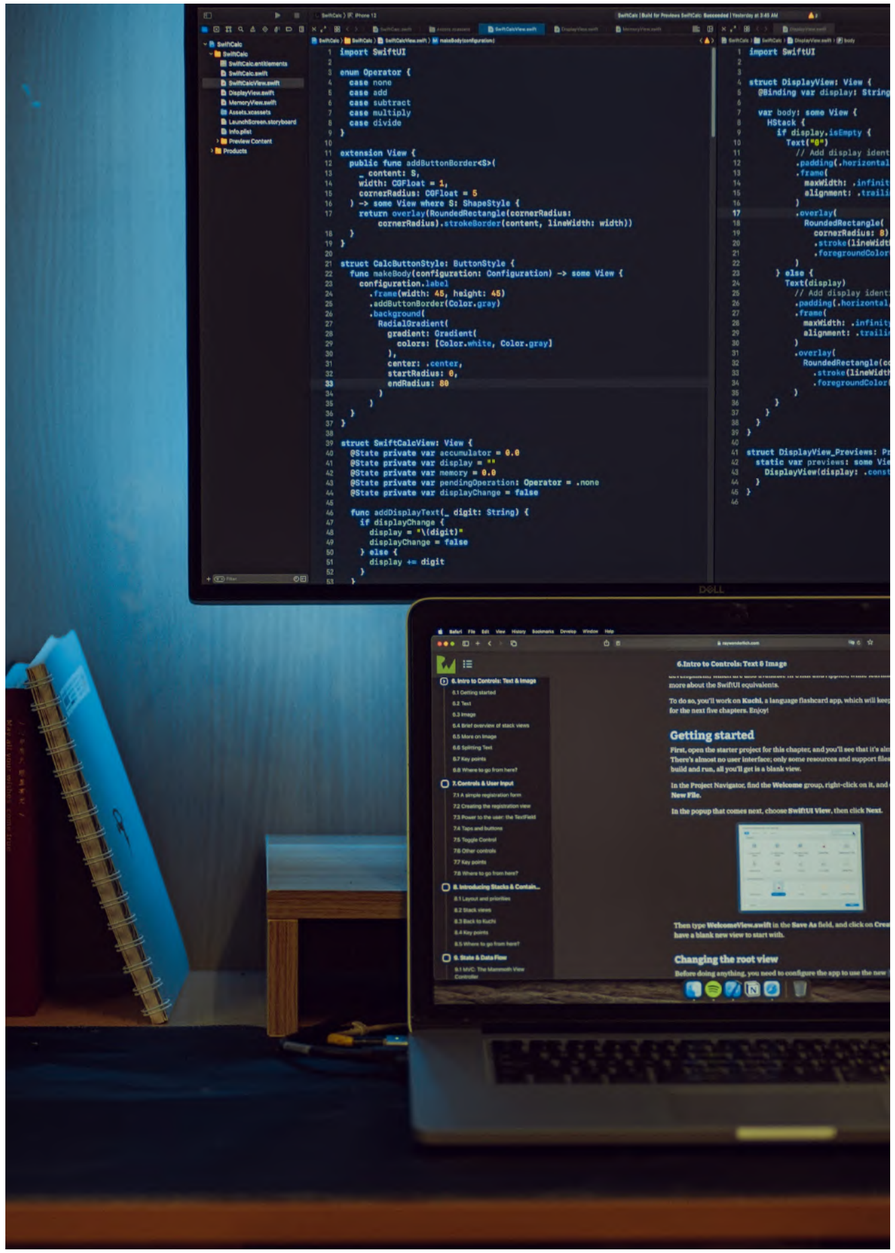
The aim of the project was to build a complete, fully functioning JavaScript web application which uses an external API.



Duration

17 days

Credits

Tutor: Emanuel Okello
Mentor: Ramadhan Aheebwa

Built with

- Javascript
- Bootstrap
- JQuery
- HTML5
- CSS3

Approach

forEach() Loops & IIFE

I first used a forEach loop to iterate over the Pokemon in my pokemonList array. Then I wrap my pokemonList array in an IIFE to avoid accidentally accessing the global state.

DOM Interaction

Next, I created a fluid user interfaces through DOM manipulation and applied event handling for web interactivity and accessibility.

API & Asynchronous requests

Then I Used Ajax principles to send and fetch pokemon asynchronously from, pokeapi.co, an external API. I chose to fetch pokemon using promises asynchronously. Rather than requiring a page refresh to display new information, the page can, instead, be altered dynamically such as automatically updated feeds.

Bootstrap & UI Libraries

Then I implemented bootstrap, a responsive application framework for UI patterns such as form validation and modals to speed up design.

Performance & Debugging

After adding bootstrap I implemented ESLint , cleaned up my codebase, fixed all linting issues by using prettier, minify CSS and JavaScript files and finally deployed the app on GitHub pages.

Retrospective

What went well?

I had a fun time designing and developing this project in javascript. I found bootstrap to be very intuitive and easy to grasp and indeed it did save a ton of time.

What didn't go well?

The biggest challenge was time. I had a delay in completing the app on time due to taking some time to work on the filter functionality. I took the initiative to add this feature as an added bonus to test my javascript skills. After reaching out to my tutor for assistance to no avail I remained determined and finally found the solution I was looking for.

Future Steps

I would like to continue to build on the app to include more pokemon and add a compare functionality that allows the user to compare stats between pokemon. I would also like to spend more time to redesign the detailed view of the modal that showcase the pokemon stats in a bar like infograph.

Final Thoughts

Overall, this was a fun introduction to javascript and getting to dive deep into API's, promises, for each method, declarations, primative and complex data types, conditionals, loops, functions, DOM and learning the benefits of asynchronous behavior.

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