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IT4403
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IT 4403 Individual Project Milestone 1: JSON Data Handling

For our first milestone, I developed a web page that loads and displays book data using JSON files. This project involved both HTML/CSS for structuring and styling, and JavaScript/jQuery for dynamically fetching and rendering JSON data. The page for milestone 1 includes two main sections: a single book view, displaying expanded details of one book, and a multiple books view, which lists several books along with their descriptions.

While I have experience in HTML and CSS, this project helped me sharpen my JavaScript skills through jQuery to request JSON data, and displaying it on the page depending on the data fetched.

The project is hosted on GitHub Pages. Check it out!

https://michaelanthonyverde.github.io/michaelverde_IT4403/index.html

Single Book Division

The Modern Web

Subtitle: Multi-device Web Development with HTML5, CSS3, and JavaScript

Authors: Peter Gasston

Publisher: No Starch Press

Published Date: 2013

Description:

A Guide to Modern Web Development

Today's web technologies are evolving at near-light speed, bringing the promise of a seamless Internet ever closer to reality. When users can browse the Web on a three-inch phone screen as easily as on a fifty-inch HDTV, what's a developer to do?

Peter Gasston's *The Modern Web* will guide you through the latest and most important tools of device-agnostic web development, including HTML5, CSS3, and JavaScript. His plain-English explanations and practical examples emphasize the techniques, principles, and practices that you'll need to easily transcend individual browser quirks and stay relevant as these technologies are updated.

Learn how to:

- * Plan your content so that it displays fluidly across multiple devices
- * Design websites to interact with devices using the most up-to-date APIs, including Geolocation, Orientation, and Web Storage
- * Incorporate cross-platform audio and video without using troublesome plug-ins
- * Make images and graphics scalable on high-resolution devices with SVGUse powerful HTML5 elements to design better forms

Turn outdated websites into flexible, user-friendly ones that take full advantage of the unique capabilities of any device or browser. With the help of *The Modern Web*, you'll be ready to navigate the front lines of device-independent development.

Industry Identifiers: ISBN_10: 1593274874, ISBN_13: 9781593274870

Categories: Computers / Web / Design, Computers / Software Development & Engineering / General, Computers / Programming Languages / JavaScript, Computers / Programming Languages / HTML, Computers / Web / Web Programming

Dimensions: Height: 24.00 cm, Width: 17.80 cm

This code fetches the JSON data from the google-books-book.json file using jQuery's \$.getJSON() method. It extracts and formats book details into an HTML structure into the division to dynamically display the book data. The Multiple Books division uses a similar method to append the data of multiple books from another JSON file into smaller descriptions using Javascript loops.

Multiple Books Division

The Modern Web

Author: Peter Gasston

Description: Provides information on Web development for multiple devices, covering such topics as structure and semantics, device APIs, multimedia, and Web apps.

The Tangled Web

Author: Michal Zalewski

Description: Modern web applications are built on a tangle of technologies that have been developed over time and then haphazardly pieced together. Every piece of the web application stack, from HTTP requests to browser-side scripts, comes with important yet subtle security consequences. To keep users safe, it is essential for developers to confidently navigate this landscape. In *The Tangled Web*, Michal Zalewski, one of the world's top browser security experts, offers a compelling narrative that explains exactly how browsers work and why they're fundamentally insecure. Rather than dispense simplistic advice on vulnerabilities, Zalewski examines the entire browser security model, revealing weak points and providing crucial information for shoring up web application security. You'll learn how to:

- * Perform common but surprisingly complex tasks such as URL parsing and HTML sanitization
- * Use modern security features like Strict Transport Security, Content Security Policy, and Cross-Origin Resource Sharing
- * Leverage many variants of the same-origin policy to safely compartmentalize complex web applications and protect user credentials in case of XSS bugs
- * Build mashups and embed gadgets without getting stung by the tricky frame navigation policy
- * Embed or host user-supplied content without running into the trap of content sniffing

For quick reference, "Security Engineering Cheat Sheets" at the end of each chapter offer ready solutions to problems you're most likely to encounter. With coverage extending as far as planned HTML5 features, *The Tangled Web* will help you create secure web applications that stand the test of time.

Software Engineering for Modern Web Applications: Methodologies and Technologies

Author: Brandon, Daniel M.

Description: "This book presents current, effective software engineering methods for the design and development of modern Web-based

I wanted to polish the site a bit, so I featured some visual appeal in book cards behind the text using CSS using padding, borders, and hover effects. Behind the scenes, minor error handling is being run using the `.fail()` method to ensure content is loaded properly from the correct path for the purposes of debugging.