Website Overview - 20387636

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Assignment 2: JavaScript Additions

Q1. Dynamic Menu Bar with JavaScript

The dynamic menu bar, featured across all webpages, exemplifies elegant design with JavaScript-driven functionality for a multi-level interactive experience. Its implementation in navbar.js, complemented by navbar.css, demonstrates sophisticated techniques such as gradual fade-in/out effects and responsive positioning. The menu dynamically adapts to user interactions, such as clicking the hamburger icon, to reveal or conceal navigation options, including a seamlessly integrated dropdown for the grammar section. This enhancement not only caters to aesthetic appeal but also improves site navigation efficiency, showcasing an innovative approach tailored to user needs.

Q2. Form Data Validation

On registration.html and entry.html, form data validation is rigorously applied through JavaScript, ensuring a high level of data integrity and user guidance. The validation logic includes unique username checks against local storage, regex-based password strength assessment, and format validation for emails and phone numbers. This thorough validation process prevents erroneous data submission, enhancing the site's usability and security. The direct, actionable feedback provided to users corrects input errors in real-time.

Q3. Form Data Local Storage

This feature leverages JavaScript to capture and store form data from registration.html and entry.html directly into the browser's local storage, showcasing advanced client-side data management. A dedicated interface element allows users to visualize stored data within a dynamically generated HTML table, offering a transparent view of collected inputs. This implementation, detailed in script.js, exemplifies efficient data handling practices, enabling server-free access to user submissions.

Q4. Event Capturing and Handling

The introduction of sophisticated event handling mechanisms, such as hover-triggered border enlargement for section headers and clickable image previews that expand to full-screen overlays, significantly enriches user interaction. Implemented across various pages and detailed within script.js, these features exemplify the application of advanced JavaScript techniques to create a more engaging and responsive user experience. Additionally, the innovative section minimization/maximization functionality provides users

with control over content display, further streamlining site navigation. These enhancements, underpinned by comprehensive code annotations, reflect a deep understanding of JavaScript's capabilities to improve website interactivity and user satisfaction.

Note: Code comments in 'navbar.js' and 'script.js' clarify the implementation details, ensuring that the functionalities are easily understood and maintained.

Assignment 1 (Past Submission)

Description

Dictionary/English Learning Website with Login Functionality

This website provides various resources such as articles, video links, and English language learning information.

Target Audience

- Individuals new to English learning
- A resource for English teachers with advanced grammar information

Features

- Word of the day, search functionality, new word addition by admins
- Consistent navigation bar and footer across all pages with clean and minimal design
- Extensive use of HTML5 semantic elements and tags
- Styling with CSS3, demonstrating both external and inline CSS
- Responsive design with CSS media queries

Pages and Technical Features

Home Page (index.html)

Access: Main navigation bar
Features:

- `audio` tag for Word of the Day
- CSS Flexbox for responsive layout
- HTML `section`, `div`, and `ul` for content organization

Search Page (search.html)

Access: Navbar link
Features:

- In-page CSS for custom styles
- CSS Flexbox for centering elements
- `input` for search functionality

Videos Page (videos.html)

Access: Navbar link
Features:

- `iframe` for embedding videos
- Sidebar using `aside`
- `blockquote` for quotations