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Capstone Course 260

Personal Professional Website Development

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Section 1: Project Overview

The following information provides documentation for the personal professional website belonging to Iva M. Brooks. The project is a static HTML based website using Tailwind CSS. The Personal Professional Website presents biographical information such as resume-style content, publications, awards, and a contact form. The purpose of this documentation is to describe the project's structure, explain how each component of the code functions, and provide end-user instructions for interacting with the website.

Section 2: System Structure

The website is composed of the following high-level components.

- Header and navigation
- Bio section with profile image
- Education section

- Experience section
- Publications section
- Awards section
- Contact form with JavaScript handler
- Footer

Section 3: Technical Code Documentation

1. *HTML Structure*

This HTML document follows a conventional structure using headers, mains, sections, and footer elements. Tailwind CDN is loaded via script tags to allow utility-class styling. A modified sample of an open-source HTML code is in use to this project.

2. *Custom Styles*

There are several small style blocks defining a lemongrass color theme, including custom class names.

3. *JavaScript Functions*

The file includes a contact form handler which captures form submissions, prevents the default browser from refreshing attribute behavior, displays a temporary message, and clears the form. Another script automatically updates the copyright year.

4. *Excel file database integration*

An excel file database receives data input from data input into the static HTML webpage contact fields. When an end-user submits data input to the contact form fields, the script checks if the email already exists in the Excel datasheet. Excel spreadsheets are integrated to act as a backend database for when an end-user inputs data to the contact form fields (mock back used for this project with capabilities to convert to fully operational back end to a PHP spreadsheet dependency; the scripts check the data against the Excel file for validation or pre-existing data. If no previous data exists, the new entry is added. The Excel file itself is not overwritten. The contact data uses SheetJS library to read the Excel file in the browser and display data from the spreadsheet as a table.

Section 4: User Documentation

The website's design and aesthetic target capture audience is a basic navigating end-user ranging in age from a 1-year-old through to a 101-year-old. The website's development to an end-user is simple virtual data input and downloading capabilities in viewable content data.

1. Purpose and use of the personal Business website

A personal business webpage is a simple website that represents an individual, business, and/or entity, professionally which is an online resume in brief, portfolio, and business card combined. The webpage consists of components such as and is not limited to name, photo, job title, brief bio, accolades, portfolio materials, and publications. The webpage also has access to viewable and downloadable pdf documents for a full view of provided work history, education, skills, samples, accolades, and contact information. This personal business webpage's intent and/or purpose is to provide an online presence and access to desired publicly shared information to help build credibility, networking, create traffic to possibilities to a suitable and/or complementing network of end-users, clients or employers. The personal webpage also allows user control to the professional branding in an online presence and showcases unique selling points to building a network of professionals.

2. Navigating the Website

Users can access sections using a navigation bar, which can scroll to sections within the website's components such as Bio, Experience, Publications, and Contact sections.

3. Viewing Publications

Publications are and/or can be presented as cards with titles, optional digital object identifier (DOI) fields, and can be linked to downloadable PDF documents.

4. Submitting to the Contact Form

An End-User can enter their name data, email data, and message data. The form displays a simulated confirmation message and stores data input to backend excel data spreadsheet which can be viewable in a web browser.

Section 5: Appendix

This appendix contains an open-source HTML source code for reference for the personal business website for Iva M. Brooks and/or in reference to Iva M. Brooks, Cybersecurity Newbie.