RESTAURANT WEBSITE

23CSA391A

Final Report

Submitted by

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BACHELOR OF COMPUTER APPLICATIONS

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1. Course Overview

(List the enrolled courses, and indicate whether completed or not)

Sl. No.	Courses	Outcomes *(Describe the learning outcomes achieved from each course)*
1	**HTML, CSS, and Javascript for Web Developers** <https://www.coursera.org/programs/ahead-bca-july-2021-sem5-minor-project-80y9b/learn/html-css-javascript-for-web-developers>	Through the Coursera course on HTML, CSS, and JavaScript, I've gained essential skills in web development. I've learned to create the structure of web pages using HTML, style them with CSS for visual appeal, and add interactive elements using JavaScript. This knowledge empowered me to design and build a static restaurant website, where visitors can easily navigate menus, view prices, and check operating hours.
2	**Web Development in Javascript: Build Your First Website** < https://www.coursera.org/programs/ahead-bca-july-2021-sem5-minor-project-80y9b/learn/web-development-in-javascript-build-your-first-website >	The hands-on project of creating a restaurant website allowed me to put into practice the concepts learned in the Coursera course. I developed skills in building functional web pages, including showcasing menus, displaying prices, and presenting operating hours in a user-friendly format.
2	**Prompt Engineering for ChatGPT** <https://www.coursera.org/programs/ahead-bca-july-2021-sem5-minor-project-80y9b/learn/prompt-engineering>	The Prompt Engineering for ChatGPT course improved my skills in crafting precise prompts to elicit desired responses from the AI model. Through practical exercises, I learned effective strategies for formulating clear and contextually relevant prompts, enhancing my ability to generate accurate outputs from ChatGPT. This training equipped me with valuable techniques for optimizing communication with AI models, enabling more effective utilization in diverse applications.

2. Assessments Completed

(Any two in detail)

Sl. No.	Courses	Assessments
	HTML, CSS, and Javascript for Web Developers	Coding Assignment
1		*Module 2 Coding Assignment* [https://shubham10-bit.github.io/HTML-CSS-JS-Projects/Module%202%20Coding%20Assignment/index.html]
2		*Module 3 Coding Assignment* [https://shubham10-bit.github.io/HTML-CSS-JS-Projects/Module%203%20Coding%20Assignment/index.html]
3		*Module 4 Coding Assignment* [https://shubham10-bit.github.io/HTML-CSS-JS-Projects/Module%204%20Coding%20Assignment/index.html]
4		*Module 5 Coding Assignment* [https://shubham10-bit.github.io/HTML-CSS-JS-Projects/Module%205%20Coding%20Assignment/index.html]

(Details about the hands-on implementation)

3. Abstract of the project

(Write about the hands-on implementation in not more than 250 words)

In this 90-minute Guided Project, I initially explored enhancing website interactivity and user-friendliness using JavaScript. While working on the project, I encountered challenges with the output not meeting my expectations. Reflecting on this, I decided to start from scratch and develop my own restaurant website. By incorporating JavaScript objects and interactive features, and combining them with HTML and CSS, I crafted a personalized restaurant website tailored to my vision. Specifically, I designed an interactive menu that enables users to explore side orders based on their menu selections. Through this hands-on experience, I not only gained valuable skills in JavaScript programming but also learned the importance of persistence and adaptability in web development. This journey empowered me to create dynamic and engaging websites that align with my creative aspirations..

4. Problem Statement :

Context: In the digital landscape, the restaurant industry faces challenges in effectively leveraging online platforms to engage with customers and showcase their offerings.

Restaurant Owners' Challenge: Restaurant owners encounter hurdles in establishing a robust online presence that accurately represents their brand and attracts potential diners.

Customers' Challenges: Customers often struggle to access essential information about restaurants, such as menus, operating hours, and reservation options, leading to inconvenience and dissatisfaction.

Project Objective: This project aims to address these challenges by developing a user-friendly and visually appealing restaurant website. The website will serve as a comprehensive platform for customers to explore restaurant options, view menus, make reservations, and interact with the establishment seamlessly.

5. System Design :

The system design for the restaurant website will primarily focus on front-end development, as it involves creating an interactive and visually appealing interface for users to browse menus and view restaurant information.

The architecture will revolve around static web pages served to users' browsers, with no server-side processing or database interaction.

Design considerations will include responsiveness for various screen sizes, intuitive navigation, and adherence to best practices for web accessibility and usability.

5.1 Software Requirements :

a. **Text Editor/IDE (Visual Studio Code):** Used for writing and managing code files (HTML, CSS, JavaScript) efficiently.

b. **Web Browser (Google Chrome, Mozilla Firefox, or any modern browser):** Used for testing and previewing the website during development.

c. **Version Control System (Git):** Used for tracking changes in the codebase, collaborating with others, and managing project versions.

d. **HTTP Server (Live Server extension for VS Code or similar tool):** Provides a local server environment for testing web pages and applications during development.

e. **Browser Developer Tools (Built-in developer tools in web browsers):** Used for inspecting and debugging web pages, analyzing network activity, and optimizing performance during development.

5.2 Hardware Requirements :

a. A personal computer or laptop capable of running the required software smoothly.
b. Standard hardware specifications for web development tasks, including sufficient RAM and CPU performance for running a text editor, web browser, and other development tools simultaneously.

5.3 Design of the System

1. The system will comprise static web pages built using HTML, styled with CSS, and enhanced with interactivity using JavaScript.
2. Each page will follow a consistent design theme, incorporating elements such as navigation menus, headers, footers, and content sections.
3. Visual assets, if used, will be created using graphics software and optimized for web delivery.
4. The system will prioritize user experience by ensuring responsiveness across different devices and browsers, as well as adherence to web accessibility standards.

5.4 Module Description :

1. The modules of the restaurant website will include:
2. Home Page: Featuring an overview of the restaurant, highlights of the menu, and any special promotions.
3. Menu Page: Displaying the restaurant's menu items categorized by type (e.g., appetizers, mains, desserts).
4. Pricing Information: Providing details about the prices of menu items, potentially including special offers or meal deals.
5. Operating Hours: Listing the restaurant's opening hours for different days of the week.
6. Contact Information: Including contact details such as address, phone number, and email for inquiries or reservations.
7. About Us: Offering background information about the restaurant, its history, and mission statement (if applicable).

6. System Implementation :

- Create HTML markup for different pages of the website, including the home page, menu page, pricing page, etc. Define the structure and layout of each page using HTML tags and elements.
- **CSS Styling:** Write CSS code to style the HTML elements, defining fonts, colors, layouts, and other visual aspects of the website. Ensure consistency in design across all pages for a cohesive user experience.
- **JavaScript Programming:** Implement JavaScript functionality to enhance user interaction, such as dropdown menus, image sliders, or form validation. Use JavaScript to make the website more dynamic and responsive to user actions.
- **Integration of Components:** Integrate various components and modules of the website, ensuring seamless interaction and functionality. Test the integration to identify and resolve any

compatibility issues or errors.

- **Testing and Debugging:** Continuously test the implemented features and functionalities of the website to ensure they work as expected. Debug any errors or issues encountered during testing and make necessary corrections.
- **Optimization**: Optimize the website for performance, responsiveness, and compatibility with different devices and browsers. Minimize loading times, optimize images and other assets, and ensure cross-browser compatibility to provide a smooth user experience.
- **Documentation**: Document the implementation process, including any challenges faced, decisions made, and solutions implemented. Provide clear and concise documentation to aid in future maintenance and development of the website.

7. Conclusion :

To sum up, completing Coursera courses in HTML, CSS, and JavaScript laid a strong foundation in web design, equipping me with practical skills to build user-friendly static websites. Additionally, the "Prompt Engineering for ChatGPT" course sharpened my ability to interact effectively with AI models like ChatGPT for content generation.
While doing the Coursera HandsOnProject, I had trouble with the code, which was missing some parts and made the website not show up correctly. So I decided to start over and make my own restaurant website.

In summary, taking the "Prompt Engineering for ChatGPT" course has improved my interactions with AI systems like ChatGPT. *This has made the process of creating the restaurant website and this project report much easier*. By using ChatGPT effectively, I was able to quickly generate content, resulting in a website and report that both work well. I am eager to keep up with the latest developments in web development and AI as I go forward.

(Many of the assessments links are from my github where I store my codes)

Github link : (https://github.com/shubham10-bit/HTML-CSS-JS-Projects)

Date : 15th April 2024
Student Name and Signature : Shubham Jayawant Aeer 

Name and Signature of the Evaluator.

Date