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Project Title: Venti Cafe Website

1. Project Overview:

This project is aimed to emulate a real-life coffee shop website. This website aims to be able to take orders and perform calculations to output the total amount to be paid, and allow users to create an account and log in as well. The target audience will be those people who like drinking coffee. Some functionalities I plan to implement are the possibility to customize drinks, the ability to calculate tips, and the before mentioned opportunity for users to create an account.

2. Project Timeline:

Step	Expected Completion
HTML Website Structure and CSS Styling	8/10
Implementation of JavaScript Functionalities	8/11
Creation of Database	8/12
The connection between Server and Database	8/14
Written Report	8/15

3. Project Architecture

The website has different pages (main menu, login, create account, password recovery, and about us) that are connected through JavaScript, and styled with CSS.

For the create account page, when the user hits the create account button. The data from the form will be collected and sent to a database through PHP.
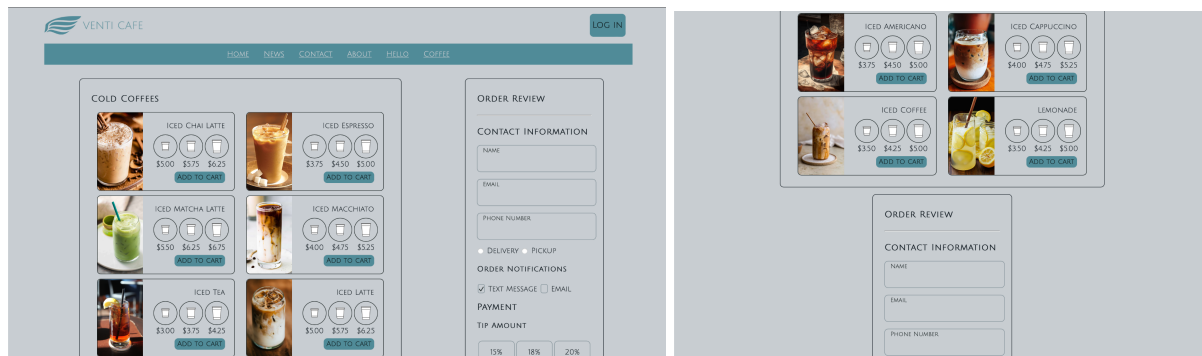
For the login page, users will be asked to input their email and password. That data is collected through PHP, and the password will be compared with the password retrieved from the database that stores all the accounts created.

4. User Interface (UI) Design

The idea of this website is to create a nice and smooth experience for the users, as they are potential future customers. The color scheme is a combination of different scales of gray and green. The font used is Julius.

The main content is divided into two columns, the left column will show the menu items and the right column will display an overview of the items ordered by the user as well as the checkout section. However, the right column will move toward the bottom of the webpage if the web browser is too narrow.

Input elements have full customization that goes accordingly to the design of the webpage. To mention some, text input fields have their respective labels located at the top left corner, buttons will change color if they are pressed and will perform certain actions, and some sections around the website are hidden and can only be shown if the user chooses certain options.

5. Database Design

Venti Cafe Database

user_accounts				
first_name(string)	last_name(string)	email(string)	password(string)	birthday(date)

6. Functionality & Features

Users will be able to select drinks from the menu, choose the size of the drink, and add it to a cart. On the checkout section, the customer can select to give an optional tip, fixed or custom where the user can input any number.

Another feature is that the user will be able to create accounts and login into them. Also, there is a form for users to recover the password in case they forget it. When creating an account, users will be asked to input their first name, last name, email, birthday (which serves as a form of user verification for password recovery), and to create a password.

7. Technology Stack

Editor: Visual Studio Code(1.81.1)

Front-end: HTML, CSS, and JavaScript

Back-end: PHP (7.4.33) and MySQL (5.7.39)

8. Challenges & Mitigation

Most of my challenges were solved by going searching online for how to apply certain ideas I had in my mind, putting program examples on my test file and playing with the code to get a better understanding of how those examples posted online work, and then applying it to my website.

I think the most challenging part was the design because it took me the most time for me to complete.

Another difficulty I had was working on the transition of putting selected items into the shopping cart.

9. References

https://www.youtube.com/watch?v=YeFzkC2awTM

https://matthewjamestaylor.com/2-column-layouts

https://stackoverflow.com/questions/49703517/how-can-i-use-images-instead-of-radio-buttons