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Project Title: cloudycaps Keycaps Website

1. Project Overview:

My plans for the web development project are to be able to make a business website for a friend whose hobby is making custom artisan keycaps. As someone who has never worked with the fundamental languages of web development: HTML, CSS, and JavaScript, I wanted to use this opportunity to not only learn about the basics but also enjoy the process of what it's like to be a beginner web developer. My website aims to help a friend establish her small business online. Having an online presence for a small business would help it reach a larger customer base, particularly keyboard enthusiasts, thereby increasing sales. As for any specific functionalities, I'd like to try implementing a countdown timer for future raffle events.

2. Project Timeline:

Tentative Schedule

Date	Objective for the Day
8/7/23	Continue working on the HOME, ABOUT, CONTACT US pages using HTML
8/8/23	Continue working on the HOME, ABOUT, CONTACT US pages using HTML
8/9/23	Finish the HOME & ABOUT page and add CSS style and some JavaScript functionality to them
8/10/23	Finalize the form on the CONTACT US page and use CSS to style the page
8/11/23	Work on SIGN IN & SIGN UP pages using forms in HTML and finish styling the pages using CSS
8/12/23	Start working on the sales/fulfillment form page for the custom artisan keycaps
8/13/23	Finish the sales/fulfillment page and start creating the database using PHP and SQL
8/14/23	Continue working on the database
8/15/23	Finish up the database portion of the project before pushing to GitHub

3. Project Architecture

My project will use front-end languages like HTML, CSS, and JavaScript to write, design, and add functionality to the website. Moreover, back-end languages such as PHP and MySQL will be used to help store the values entered by the user. For example, forms in HTML will have action attributes that trigger requests to be sent to the application layer for processing or to the

PHP files. In these files, the user requests are received, processed, and then sent to the database to be stored for future use.

4. User Interface (UI) Design

For the overall UI design and user experience of this website, I decided to use several different websites as sources of inspiration. These websites that I drew references from were all online shops and small businesses built by a small team of people. I decided to go with a fairly simple website whose layouts were very minimal. I based the color scheme of the overall website on the logo itself. For example, the primary colors used were a light shade of pink (#FAE0E4) for several pages of the background and a very subtle, almost white pastel yellow color (#ffffb0) for the navigation bar. Other colors that complimented my scheme really well were (b6977d), a light shade of brown that contrasted with the subtle pastel white, and a darker shade of pink (#E2A49C), which made the lighter pink pop. As for typography, I used a Google Font's style called "Poppins", which I thought was really cute and would go nicely with my color scheme. Some of my favorite interactive elements that I included here and there on my website were hover effects whenever your cursor moved across an image or a button when submitting a form.

5. Database Design

Outline the database schema and tables you will create for your project. Include the different data entities, their attributes, and the relationships between them. A diagram with table column metadata would work.

Cisc3140 database

4 Tables:

- Contact_info
 - Name: varchar(30)
 - Email: varchar(30)
 - Message: varchar(250)
- Fulfillment_info
 - Name: varchar(50)
 - Username: varchar(50)
 - Email: varchar(50)
 - Amount: varchar(30)
 - Address: varchar(100)
 - Contact: varchar(20)
 - Shipping: varchar(10)
 - Finisher: varchar(10)
- Signin_info
 - Email: varchar(30)
 - Password: varchar(15)
- Signup_info

- First name: varchar(30)
- Last name: varchar(30)
- Email: varchar(30)
- Password: varchar(15)

6. Functionality & Features

Features

- **Shipping & Delivery Information page**
 - The purpose of this page was to answer customer's most common questions regarding shipments and delivery dates. Users and customers alike are able to learn about the information quickly without having to wait to contact a team member.
- **User registration and Login pages**
 - The purpose of these pages was to allow users to create accounts for their own personalized experience, whether it be being able to save certain products or saving your information for later.
- **About us page**
 - The purpose of this page was to allow users to learn more about the person behind the works and products being sold and advertised. An about us page can help emotionally appeal to users who share similar ideas

Functionalities

- **Navigation bar**
 - The purpose of the navigation bar is to make it easier for users accessing the website. With the help of this navigation bars, everything is in one place and you can easily click from one page to another without getting lost.
 - Navigation bars can be made interactive and stylish with the help of JavaScript and CSS. For example in my website I used a hovering effect over my navigation bar. As I hover the logo, a pointer shows up and I'm able to access that link to the next destination.
- **Countdown Timer**
 - The purpose of my countdown timer is to allows users on the website to know the exact time left till another big event. This functionality not only makes it more exciting but also interactive as the user would want to come back and check how much time there is left.


7. Technology Stack

- **Front-End**
 - HTML5:

- Is the skeleton of the website, used for structuring the website
 - CSS
 - The skin of the website, using CSS styling properties can help make a website seem more appealing to users all around
 - JavaScript
- **Back-End**
 - PHPv7.4.33
- **Database**
 - MySQLv5.7.39
- **Version Control**
 - Git(v2.39.2)
 - GitHub
- 8. **Challenges & Mitigation**
 - **Time Management**
 - Time management was one of the challenges I faced during the development process. It was difficult to balance work in the mornings with late classes and barely any time to work on the project during the weekdays. I was able to mitigate these challenges effectively by spending extra time over the weekends reviewing the materials from class and applying them to my project. The tentative project timeline was useful because I was able to use it as a guide to reach my objective for the day. I also found writing and listing out the different parts of the project to be helpful in managing my time effectively.
 - Difficulties getting forms to **sync to the MySQL database**
 - I was struggling with the MySQL database and trying to store the values entered by the user from the multiple forms I had. I was able to resolve this problem by asking questions during the lab activity, and it helped me understand what I was missing.
 - Trying to **learn all the CSS properties** and what each one does
 - Trying to learn all the different CSS properties was extremely difficult because there were so many. Something I could do next time for the project is draft out an idea of what I want my website to look like. This could help visually break down all the different tags and attributes to use.

9. References

Include any relevant resources, research papers, or tutorials that have inspired or influenced your project's concept and development.

-  How to Create an Image Grid Gallery - HTML, CSS Web Design Tutorial
- https://www.w3schools.com/howto/howto_js_countdown.asp
- <https://osumekeys.com/>
- <https://birduyen.com/pages/about>

