HTTP 418  
Final Project Write-up



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# Introduction

UX Design: Ian Dodson

UI Implementation: Roger Benjume

Backend Implementation: Alex Moomaw

Backend Implementation: Kevin Nguyen

Project Manager: Amy Washington

# Initial Goals

We set out to create a personal blog page about teapots incorporating the following features:

* About Me page
* Blog post page
* Login page for admin user
* Filtering options to show blog posts by type and date posted
* Option for visitors to post comments on individual blog posts
* Option for admin user to be able to delete blog posts
* Option to toggle dark/light mode
* Option to sign up for an email list

From a technical perspective, our personal blog page will satisfy the following requirements:

* Use at least one JavaScript library
  + We chose to use JQuery to implement tooltips on our blog page
* Incorporate a CSS style sheet
  + We chose to use a CSS JQuery style sheet
* Incorporate a database with data, provide a database creation script with instructions for running locally
  + We chose to use php, PHPMyAdmin, and MySQLi extension to bridge the connection between database, backend, and front end code. Assigned each blog post an individual page id to differentiate which comments should populate with each post.
* Utilize cookies for state management and visits, present a different page/message for returning users vs. new users
  + We chose to use php to check whether the admin user is logged in. If the admin user is logged in there will be a “delete comment” option visible on blog post comments, additionally the login page display will change to show an option for logging out.
* Implement logging (write logs to database for error management and site usage)
  + Logging is designed in such a way that when backend interactions occur, the logger copies the query and stores it in a separate database table
* Utilize Git for version control
  + Link to GitHub repo: [GitHub](https://github.com/rogerb5/winter2023-cscd378-blog-final)

# Milestones

## **Milestone #1:** Research



Notes: Conducted independent research followed by team discussion, needs assessment, site outline, and designed framework for implementation

Met/Unmet: Met

Explanation: N/A

Lessons: It’s important to conduct thorough research to help inform the planning/design process.

## 

## **Milestone #2:** Set up GitHub Repository



Notes: Verified all team members had access to the repository

Met/Unmet: Met

Explanation: N/A

Lessons: Make sure everyone on the team is able to use the resource effectively to ensure the everyone’s individual work stays on track

## **Milestone #3:** Initial UX Design



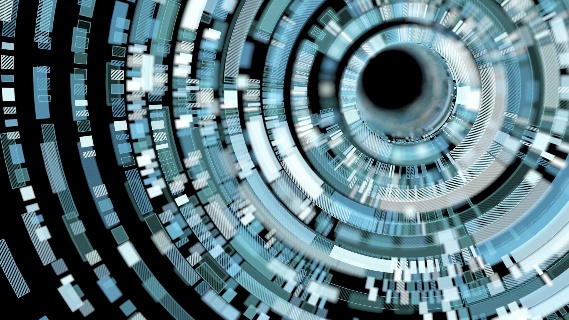
Notes: Utilized Figma to create initial UX design for landing page

Met/Unmet: Met

Explanation: N/A

Lessons: Pre-planning makes the UI implementation MUCH more seamless, waiting for the initial UX design to be completed prevents repetition.

## **Milestone #4:** UI Front End Functionality



Notes: Implemented design for website

Met/Unmet: Met

Explanation: N/A

**Lessons:**

## **Milestone #5:** API Back End Functionality



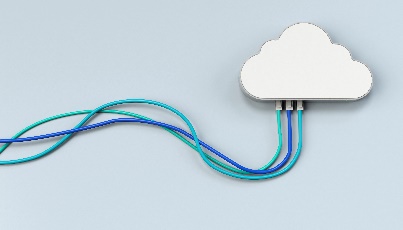
Notes: Implemented code to support site functionality

Met/Unmet: Met

Explanation: N/A

**Lessons:**

## **Milestone #6:** Database Design and Implementation



Notes: Our plan was to use the database to store admin credentials for logging in, store guest email addresses for an email list, guest comments on individual blog posts would also be stored in the database, and blog post content was going to be stored in the database to allow for dynamic content creation.

Met/Unmet: Standing up database for storing admin credentials, storing emails and guest comments, storing logging info, and storing guest comments were successful.   
Storing blog post content in the database for rendering pages was not met due to time constraints.

Explanation: Our initial hope was that the admin user would be able to create new blog posts from within the UI, however this would have required a more advanced skillset and a longer timeline. We made the decision to pivot and create our individual blog pages in the code knowing that this solution would not be scalable for an actual blog site.

Lessons: Using the database to store blog post content was a much larger and more involved undertaking than we initially expected. If we were creating this for production, we would have taken the time to follow through with this design.

## 

## **Milestone #7:** Accessibility Research



Notes: Researched WCAG guidelines for web accessibility

Met/Unmet: Met

Explanation: Presented findings to class, plan is to incorporate WCAG guidelines into work moving forward (added tooltips and made sure all media had appropriate alt tags)

**Lessons:**

## **Milestone #8:** Implement Dark Mode Design



Notes: The plan was to include an option that would allow the user to toggle between a light and dark color scheme

Met/Unmet: Unmet

Explanation: We made the decision to focus on functional design aspects with the understanding that aesthetic changes such as implementing a dark mode feature may not be achievable within our production timeline.

**Lessons:**

## 

## **Milestone #9:** Testing/Refactoring



Notes: Once the individual components of the site were complete, we linked them all together and tested the function of the site to look for areas of improvement

Met/Unmet: Met

Explanation:

**Lessons:**

# Post Mortem

Insert any charts/graphs/ data

# User Guide

# Conclusion

Time to wrap it up. What is your conclusion? How would you synthesize all the information into something even the busiest CEO wants to read? What are the key takeaways? How does your product/service/methodology uniquely address the issues raised by your study?



## Key Takeaways

* Takeaway #1
* Takeaway #2
* Takeaway #3