

Team 12 - The Infinite Loops

GitHub Link: <https://github.com/cse110-sp24-group12/warmup-exercise>

Youtube Link: <https://www.youtube.com/watch?v=Gd614E3FDb8>

Review of the process:

We arranged three different in-person and hybrid meetings for our team to join and work together. We created multiple GitHub issues and assigned each person to one/two issues. Everyone pushed code to their own branches and opened pull requests in order to merge to the main branch. Leaders and one other team member were assigned as code reviewers to each pull request. We also utilized GitHub actions to deploy the website every time code is merged into the main branch. Additionally, we wrote a short and concise documentation in GitHub Wiki pages to demonstrate how this widget can be used and what are its features and limitations. We also wrote a template for our pull requests to organize the repository more effectively.

SWOT Analysis:



Summary: Our team learned more about using HTML, JS, and CSS in this exercise. We also gained experience on Github, creating issues and assigning tasks to other team members. We got to explore implementing accessibility features by adding the translation button to our task list

page. Members practiced their documentation skills and design skills and learned more through the experience about how to work together as a team. We got to know each other better and see our abilities in action. We also got to test out using AI to assist us with the exercise, as discussed below.

Our team's view of ChatGPT and GitHub Copilot and other code generation LLMs:

Most people in our team used code generation LLMs at least to some extent to work on their tasks. In most cases, it increased our productivity by a big margin. Here are some testaments from some of our members who used AI:

Ritviksiddha: I primarily utilized GitHub Copilot as it is a convenient extension for VS Code. I can highlight segments of code and ask what that segment does (this is very helpful when looking over code that was written by someone else or utilizes tools/libraries that I'm unfamiliar with). I dislike using AI models to generate code (as I do think this can lead to bad practices or a lack of genuine understanding of new concepts in coding classes) so I primarily used it as a debugging tool. When I wrote new scripts that didn't work, it's often difficult to understand why (especially in Web Development which has less strict/developed debugging tools when compared to C++ or Java) and Copilot often helped me come up with ideas as to why the code might have a bug or issue.

Matthew: I used chatgpt for a few design aspects that I was not sure how to do (mainly with the implementation of the circular border and all of the little things that came with that). It was very useful in getting a little bit of starter code to point me in the right direction, but was not the greatest for figuring out how to deal with the little issues that arose (text not fitting in the border). I think overall, chatGPT was more useful than harmful, and I would likely consider using it again for quite a few projects (including the upcoming project in this class) if I am allowed to do so.

Sidhant: Chatgpt was useful as it saved time for me to find a few functions I didn't know and give a sample code for a way to extract data from json files. Although not very accurate, it made life easier as I was able to see updates as I made changes after. I would probably use it for similar purposes in the future if allowed.

Eban: It was useful for quickly generating code for ideas that could then be further developed, I didn't think its responses were unhelpful in any way. For example, I used it to generate part of the javascript used for adding tasks on the todo list. I will probably use ChatGPT for the project for use with simple issues.