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## Final Project with AI: Reflection

### **Which AI tools did you use?**

I used chatGPT and Gemini. I mostly only used chatGPT because Gemini produced a lot of bugs basically anytime I used it. I wanted to experiment with different systems and ended up using chatGPT more.

### **What was the hardest feature to get the AI to generate correctly?**

I think the hardest feature to get either AI tool to work through and generate correctly was the settings. Getting the tool to be able to get the tools to configure across multiple pages was difficult. At one point dark mode would only work on one page, and I figured out it was because there was a background color override on every other page that it had generated so the pages always appeared white instead of changing to black. So that was interesting to work through. I couldn't have even predicted when it had done that. It actually did okay with the settings to set the number of photos in the photo grids and setting the number of projects. It did generate the code twice at one point so the setting populated twice but that was an easy fix. Because of that though it did force me to make sure that duplicates of other code weren't found in other places. So it was more just frustrating to have to comb through and make sure things weren't accidentally done twice.

### **How did you have to modify your prompts to fix bugs?**

I actually did really well at mitigating most bugs. Other than the one I mentioned in the last section. That was the first time I gave it a big prompt. To mitigate bugs along the way I just made sure any task I asked for was small or simple to implement. I broke them down into a bunch of smaller pieces and then used my knowledge from the class to make sure they were implemented correctly or were added into the correct spots and made sure they were functioning with other files properly. I would always do a hot reload with any new page that was created as well. So I didn't run into any other bugs because I kept things so simple any time I asked it to generate a prompt. It actually helped me realize how much I actually had learned from the class because I had to take them and make sure they were actually functional and actually using the correct widget functions. It was a good experience and a good chance for me to flex my own skills.

To properly answer the question, the biggest bug I had to fix was dark mode appeared to not be working at some point but it wasn't that dark mode wasn't working, when I had made prompts for the other pages. The ai tools had populated a background color in white that was overriding the dark mode on all the other pages except the main one and so it appeared like it was not changing. It was an easy fix once I figured out this was occurring.

**Which part of the UI (if any) required manual coding or adjusting?**

I did have to do a lot of manual adjustments to the create and edit project pages. I wanted them to look a specific way and how they were generated was not with the correct colors. Then the text boxes were not the right size. Then the list items weren't generated to be marked off so I had to make the lists myself. Making it so the user can mark off the list items. I actually manually did most of the main page myself but I did have AI assist me in making adjustments to the layout as well as making sure I was pulling data from other pages. Then I think I had to make small adjustments across all pages to the font and the colors. I had to adjust the size of the titles on each page to make sure they weren't too big compared to the app title. I think overall each page I had to make a decent amount of manual adjustments to make sure that everything was consistent because the AI tools were not making sure they were consistent at all.