

**AI Documentation Report**

**CSE211 Web Programming, Fall Semester 25/26**

**Instructor: Prof. Samy**

**Group04**

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## **Introduction**

The use of artificial intelligence tools in the creation and documentation of the web project is presented. In this, the three AI tools Gemini, Claude, and ChatGPT were used to aid with coding, debugging, requirement & clarification.

These tools have been incorporated in a planned manner in order to ensure code quality, technical problem-solving, and understanding of project requirements, keeping in mind professional documentation standards.

## **Gemini: Code Structure and Cleanliness**

Gemini was mainly utilized as a code architect to ensure that our HTML and CSS files were consistent and easy to read. Our reasoning was sound, but manual coding frequently resulted in inconsistent formatting. Gemini assisted in keeping the codebase tidy and expert.

### **Important Tasks:**

- 4 space indentation was used consistently across all files.
- Visual Hierarchy: To improve readability, child elements are clearly nested.
- Tag Alignment: Verified that the closing and opening tags matched.
- Code Cleanup: For a tidy presentation, extraneous spaces and lines were eliminated.
- Error analysis: Assisted in locating and elucidating bugs, offering fixes while making sure the team knew why they happened.
- Code Comments: To make the code easier to read and maintain, it is recommended to include clear and descriptive comments throughout.

### **Claude: Integration, Debugging, and Code Assistance**

The role that Claude filled to bring frontend and backend pieces together was that of the integration and troubleshoot assistant for our application. This was crucial in not only fixing issues but also ensuring that a proper project run was accomplished in a context with the ability to handle very large amounts of information.

#### **Important Tasks:**

- System Integration Guidance: Provided guidance on the components and features that are to be included in the code for proper integration of the frontend form functionalities to the backend.
- Error analysis : Helped in tracing and understanding errors, providing solutions while ensuring that the team understood why such errors occur.
- Code Comments: In order to ensure that it is easy to understand, it is an advantage to add code comments.
- Requirement Audit: Made sure the project features, validation, and semantic HTML tag usage were all implemented properly so that the page is accessible and structured properly.
- Depended on Claude and Gemini a lot in writing JS Code. Since we didn't practice it enough or take any labs about it. We tried to understand most of the needs and requirements in it in a short period of time, which was hard.

### **ChatGPT: Conceptual Support and Documentation**

As our technical consultant, ChatGPT assisted in documentations and helped to transform abstract requirements for a project into concrete development actions.

#### **Important Tasks:**

- Clarification of Requirements: clarified any confusing terminology, such as "Slider Registration Form," to facilitate the correct execution.
- Documentation Guidance: Assisted in ensuring that technical data is properly documented in a clear, professional, formatted manner by making suggestions for a formal technical scientific report.

## **Conclusion**

We were able to focus on the logical or creative part of the task while leaving the "heavy lifting" to the AI through the combined use of such AI tools. We were able to deliver a task that is technically correct as well as well-explained through the use of Gemini for structuring, Claude for integrating, and ChatGPT for understanding.