AI Tools Used for Project

This document outlines the AI tools utilized throughout the project, detailing their contributions, advantages, and limitations.

1. Windsurf

Role in Project: Windsurf was instrumental during the initial stages of the project, including the creation of the web application, UI design, and functionality improvements.

Pros:

- **Editor with Inbuilt Agent:** Features a stunning VSCode-based editor with an integrated agent capable of handling various tasks.
- **UI and Functionality:** Demonstrated excellent performance in UI and functionality enhancements, attributed to its advanced and latest models.
- **Free Tokens for New Users:** Offers 100 free tokens for new users, providing a good starting point.
- **Systematic Task Management:** Executes tasks in a systematic, to-do manner, ensuring an organized workflow.

Cons:

- **Debugging Challenges:** Debugging issues within Windsurf proved to be a difficult process.
- **Alignment Issues:** Experienced significant challenges in rectifying the alignments of containers.
- **Unnecessary File Changes:** A major drawback observed was its tendency to unnecessarily alter other files, a common issue in current AI models potentially due to insufficient memory storage features.

2. GitHub Copilot

Role in Project: GitHub Copilot, specifically utilizing Claude Sonnet v3.5, was employed for further refinement and improvement of the outputs generated by Windsurf.

Pros:

- **Stability for Code Changes:** Recognized as one of the most stable options in the marketplace for making modifications to existing code within VSCode.
- **UI and Functionality Fixes:** Significantly contributed to resolving UI and functionality issues.

Cons:

- **Slow and Undependable AI:** The AI's thinking and working speed was observed to be slow and not consistently dependable, which was unexpected given its prior performance with the same model.
- **Limited Model Access:** Lacks access to the most advanced models currently available, such as Claude Sonnet v4.0.

3. Claude by Anthropic

Role in Project: Claude by Anthropic played a crucial role in completely overhauling the UI and revamping the existing styles.css file, which was instrumental in finalizing the web-app development.

Pros:

- **High-Quality Code Output:** Stands out as one of the best free models globally for generating high-quality code with minimal errors.
- **Pinpoint Accuracy:** Provides pinpoint accurate outputs, with any errors being easily rectifiable.

Cons:

- **Limited Free Quota:** The models are available for free only within a very restricted quota.
- **Exhausting Time Limit:** The newly introduced 5-hour usage limit proved to be quite restrictive and exhausting.