

The Task

Your task is to **choose one (1) of the six project ideas** detailed below and build a working solution.

1. The "Notebook" - Multi-File Markdown Editor

- **Product Details:** A browser-based note-taking application with a three-panel layout (file list, Markdown editor, live preview). It allows users to create, manage, and edit multiple Markdown files, with all data saved locally in the browser.
- **Objective:** The objective is to create a lightweight, browser-based note-taking application that allows users to write, manage, and preview multiple Markdown files in a clean, three-panel interface, providing a seamless writing experience.
- **Target User:** A writer, developer, or student needing a simple, persistent tool for organizing and writing Markdown notes directly in their browser.

2. The "Team-Ready" Kanban Board

- **Product Details:** A feature-rich, client-side Kanban board application. It includes detailed task modals, simulated user assignments, colored labels/tags, and filtering capabilities, with all data saved in the browser.
- **Objective:** The objective is to develop a Kanban board application that operates entirely in the browser. It should provide advanced project management features like task assignments, colored labels, and filtering to help users organize workflows.
- **Target User:** An individual or small team lead looking for a flexible project management tool for personal or team-simulated task tracking without a cloud-based service.

5. The Habit Tracker with Calendar View

- **Product Details:** A habit tracking application with a primary calendar interface. Users define habits and mark them complete on the calendar grid. The application calculates and displays statistics like completion streaks and monthly consistency.
- **Objective:** The objective is to build a motivational personal development tool that helps users establish and maintain habits. The application will provide a clear, visual representation of their progress through a calendar interface and insightful statistics.
- **Target User:** An individual focused on personal development who wants a visual and statistical way to track their daily or weekly habits.

Submission Requirements

1. **Format:** Your submission should be a **link to a public GitHub repository** and deployed. **Please include the link in the email.**
2. **Repository Contents:** The repository must contain all the code, prompts, and documentation needed to understand and run your project. It must include a README.md file.
3. **Deployment URL (Optional):** If you choose to deploy your project as a live service (e.g., as a simple web endpoint or a basic frontend), please include the publicly accessible URL in your README.md. This is not required but is a welcome addition.

README.md Documentation

Your README.md is the most critical part of the assessment. It should clearly explain your work and must include the following sections:

1. **Project Choice:** State which of the six ideas you chose.
2. **Justification of Tools:** Explain why you chose your specific tools (e.g., "I chose GPT-4 for its strong reasoning skills," "I used Python with the requests library for its simplicity in making API calls," etc.).
3. **High-Level Approach:** Describe your strategy. Did you use a single prompt or a chain? How did you structure the logic?
4. **Final Prompts:** A clear, copy-pastable version of the final prompt(s) you engineered.
5. **Instructions:** A step-by-step guide on how to run your project and reproduce your results.
6. **Challenges & Iterations:** Briefly describe any challenges you faced and how you iterated on your prompts to solve them.

Guidelines & Clarifications

- **No Restrictions:** You are free to use any LLM (e.g., GPT series, Claude, Llama, Gemini), programming language, framework, or database you see fit.
- **Clarifications:** If you have any questions or need clarification on any of the requirements, please do not hesitate to reply to this email. We are happy to help.