**AI Collaboration Log**

This document outlines the collaborative process between myself and the AI (Gemini) in developing the Campus Event Reporting System prototype. It includes a summary of key decisions and a detailed log of our conversation.

**Summary of AI Collaboration**

This project was a partnership where the AI provided a structured path and initial drafts, while I provided critical analysis, corrections, and strategic direction to ensure the final solution was robust and practical.

**Areas Where AI Suggestions Were Followed**

* **Initial Project Structure:** I adopted the AI's initial plan to first break down the assignment's requirements, then build the Design Document, and finally create the prototype.py script. This structured approach provided a clear roadmap.
* **Prototype Technology Choice:** I agreed with the AI's suggestion to use a simple Python script with SQLite. This aligned with the assignment's guideline for "clean, minimal code" and kept the focus on the core data logic rather than on unnecessary web framework complexity.
* **UI/UX Direction:** I leveraged the AI to generate initial ideas, prompts, and final mockups for the bonus UI deliverable, which provided a professional visual design for the student-facing app.
* **Final Documentation:** I used the AI-generated templates for the README.md and this log as a structural foundation to build upon.

**Areas Where I Deviated and Applied My Own Thinking**

This project's quality was significantly improved by my interventions at several key stages:

1. **Identified Critical Edge Case (Event Cancellations):** The AI's initial design did not account for cancelled or rescheduled events. I identified this as a critical real-world scenario. My suggestion led to adding a status field to the Events table and creating a dedicated "Edge Cases" section in the design document, making the design more robust.
2. **Corrected Flawed Database Schema (ID Types):** The AI initially proposed using INTEGER for primary keys like college\_id. I pointed out that real-world college IDs are often alphanumeric (e.g., 'MIT'). This crucial correction led us to change all ID fields to VARCHAR, a fundamentally better and more scalable design choice.
3. **Completed Missing Core Features:** I carefully analyzed the first version of the Python prototype and discovered that two required reports—**Attendance Percentage** and **Average Feedback Score**—were missing. My analysis prompted the AI to add these functions, making the prototype fully compliant with the assignment's requirements.
4. **Strategic Scope Management:** I questioned whether building a full backend API with Postman was necessary. This led to a strategic discussion where we concluded that it was over-engineering for this specific assignment, reaffirming the focus on a lean, effective prototype.

**Detailed Conversation Log**

**User:** (Provides the assignment PDF)

**Gemini:** "Hello! It looks like you've shared the requirements... How can I help you get started?"

**User:** "firstly let us deeply understand the assignment"

**Gemini:** "Excellent! That's the perfect first step." (Provides a detailed breakdown of the project requirements, deliverables, and strategic considerations.) "How does this breakdown sound?"

**User:** "no nothing lets start"

**Gemini:** "Excellent, let's dive in." (Creates the first version of design\_document.md with initial assumptions and data points.) "What do you think of these starting points?"

**User:** "okay great, but we should address in case th event is cancelled or rescheduled. That is one of the edge cases."

**Gemini:** "You've hit on a critical point." (Updates the design document to include a status field for events and an "Edge Cases" section, and adds the initial database schema.)

**User:** "college ID need not be necessarily be only integer value it may contain some alphabets in them too."

**Gemini:** "That is an excellent point and a much more realistic design choice." (Updates the database schema in the design document to use VARCHAR for all IDs and adds the API Design and Workflows sections.)

**User:** "yes lets proceed"

**Gemini:** (Creates the first version of the prototype.py script and a README.md file.)

**User:** (Runs the script and shares the terminal output.)

**Gemini:** "Excellent! The output looks perfect." (Confirms the prototype is working and explains the non-critical deprecation warnings.)

**User:** "I understand everything... But lets dicuss more about the features of admin and students... I also read a part where we were supposed to give UI Mockups/Wireframes, does this mean we have to implement complete functional UI or what?"

**Gemini:** "Those are excellent questions." (Clarifies that a functional UI is not needed, only bonus mockups, and explains how the prototype script simulates the actions of both Admins and Students.)

**User:** "I went through the whole code and here's what i observed: Missing/Partial things in this script are--> Attendance percentage per event... Average feedback score per event..."

**Gemini:** "That's a fantastic and sharp analysis of the script. You've correctly identified the specific reports... that were not yet implemented." (Updates prototype.py to include the two missing report functions.)

**User:** "why cant we create a backend system and use postman to check the created api endpoints... is that actually necesary?"

**Gemini:** "That's the million-dollar question... No, it is not necessary." (Explains the strategic reasons for sticking with a script-based prototype for this specific assignment, focusing on the "clean, minimal code" guideline.)

**User:** "okay lets proceed further"

**Gemini:** (Creates UI wireframe descriptions to help with the bonus deliverable.)

**User:** (Provides screenshots of an external UI generation tool, showing character limit issues.) "...only half the prompt is able to be pasted there... be efficient and give properly pastable prompt"

**Gemini:** (Provides several increasingly compressed prompts to fit the tool's strict character limit.)

**User:** (Shares the generated mockups and wireframes from the tool.) "...use banana model and give me nice and neat mockup and wireframes as you have good understanding of the project."

**Gemini:** "Of course. I understand completely." (Generates a final, polished set of mockups.)

**User:** "okay perfect, ill give my take at this, till then in the project they also asked AI conversation log... create a document for that."

**Gemini:** (Creates the first version of this ai\_conversation\_log.md with a summary.)

**User:** "you've actually given a summary, is there a way to give this entire converation?"

**Gemini:** (Updates this document to include this detailed, turn-by-turn log.)