## Campus Drive Assignment – Webknot Technologies

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### **Assumptions and Key Decisions**

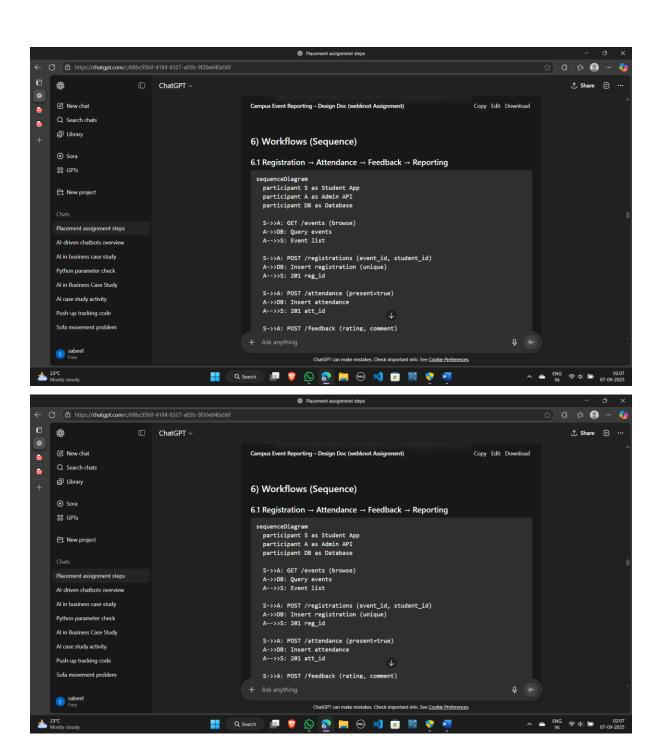
- 1. The system will be used by multiple colleges, all data will be stored in a single database and separated by college id.
- 2. Event identifiers will be unique within each college, not across all colleges.
- 3. A student can register only once for the same event; duplicate registrations will be blocked at the database level.
- 4. Attendance can only be marked on the event day, either by QR scan or manual update by admin.
- 5. Feedback will consist of a numeric rating between 1–5 and one comment per student per event.
- 6. Cancelled events will not allow further registrations, attendance marking, or feedback submission.
- 7. The prototype will prioritize simplicity: minimal APIs, SQLite database, and basic validations.

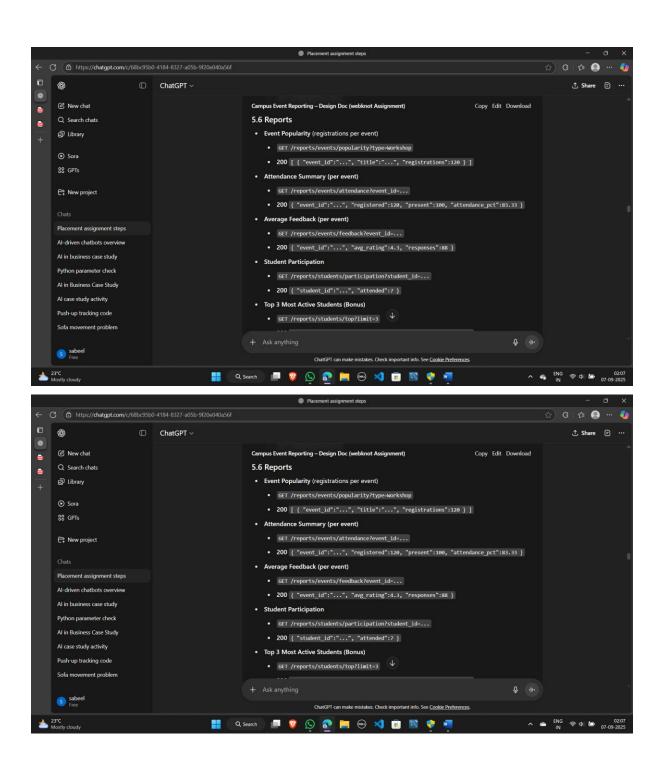
### **AI Brainstorming Log**

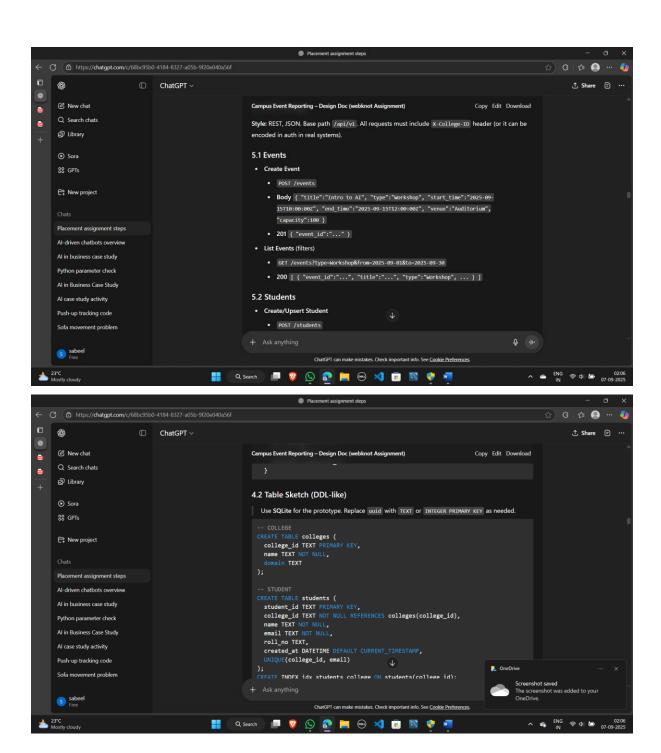
I used an AI assistant to brainstorm ideas for database schema, API design, workflows, and possible edge cases.

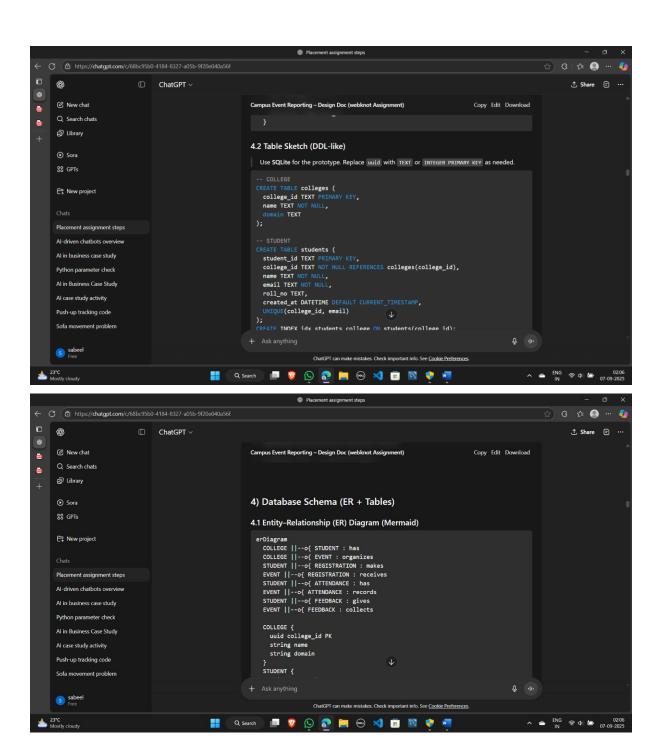
The conversation helped me refine:

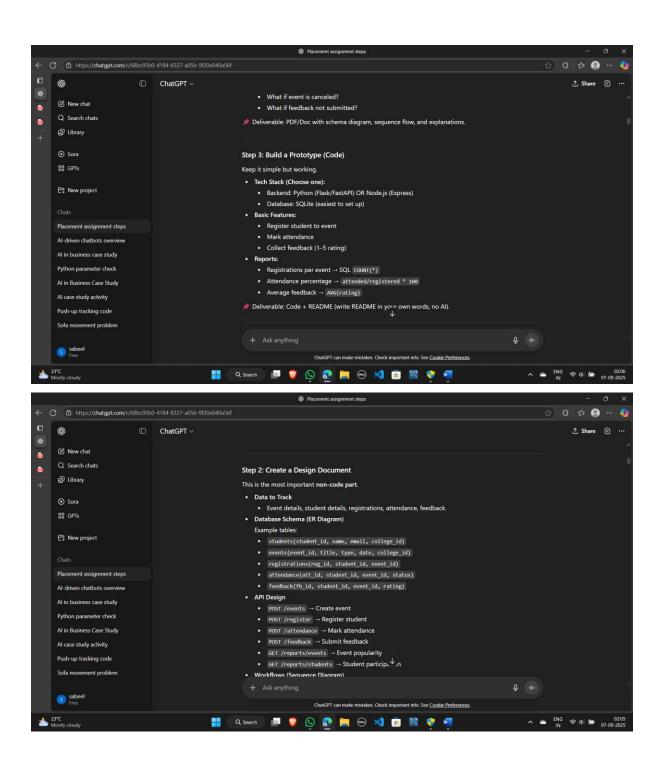
- > How to structure the entities and relationships between students, events, registrations, attendance, and feedback.
- > Which APIs are essential for reporting.
- > Which SQL queries can generate event popularity, student participation, and feedback averages.

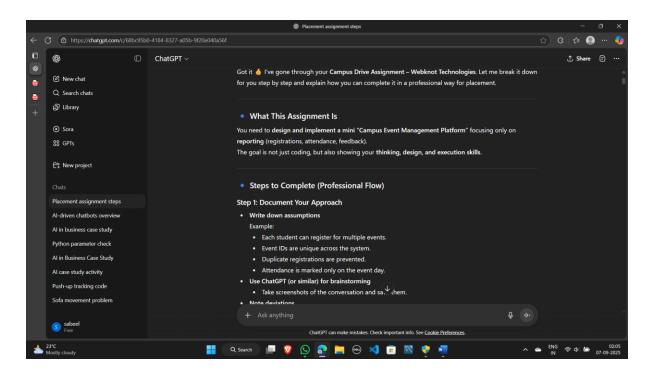












# Following vs. Deviating from AI Suggestions

#### AI Suggested Approach

- Separate database for each college
- Feedback stored only as free text
- Implement full authentication (JWT/OAuth)
- Strict enforcement of capacity limit at registration

### **Final Decision**

- Single database with college\_id field
- Feedback includes numeric rating 1–5 with optional comment
- Simple API key or header check for prototype
- Capacity check optional in prototype

#### Reason

- Easier management and reporting across colleges
- Supports report generation and analytics
- Keeps prototype lightweight and focused on reporting
- Focus on reporting, not full event lifecycle