Al Logs

Prompt 1 (Developer → LLM):

"I need to build a minimal event reporting prototype for a campus event platform. Suggest a simple schema and minimal APIs to support event creation, registration, attendance and feedback."

Al (suggested):

"Use tables: Colleges, Students, Events, Registrations, Attendance, Feedback. Keep event_id as UUID. Minimal endpoints: POST /events, POST /register, POST /attendance, POST /feedback, GET /reports/...."

Prompt 2 (Developer → LLM):

"What constraints should I add to prevent duplicate registrations and to compute attendance percentage?"

AI (suggested):

"Add a unique constraint on (event_id, student_id) in Registrations. For attendance percentage: attendance_percentage = (present_count / total_registrations) * 100."

Prompt 3 (Developer → LLM):

"I only have a few hours — should I use SQLite or Postgres for the prototype?"

Al (suggested):

"Use **SQLite** for speed and simplicity in a time-bound prototype. Keep SQL compatible with Postgres for later migration."

Note: Save screenshots of this chat window (these three Q&A blocks are enough). Place them under Al_logs/ in your repo.

Topic	Al Suggestion	My Decision (followed / deviated)	Rationale
DB choice	Suggested SQLite for prototype	Followed	Very quick to implement and acceptable for this assignment.
IDs	Use UUIDs for events	Followed	Ensures global uniqueness across colleges.
Separate DB per college	Al: option to separate	Deviated (kept single dataset)	Single DB simplifies reporting across colleges and faster to implement.
Attendance model	Separate Attendance table per check-in	Followed (simplified)	Implement a single Attendance table linked to Registration with a status field.
Detailed auth	Al suggested auth layer	Deviated (stubbed)	Authentication is out-of-scope given time constraints; will document as an improvement.

1. Tech stack (prototype)

- Node.js (LTS) + Express for server and APIs.
- SQLite (file-based) as prototype DB for speed and zero infra.
- Use Sequelize ORM for simple migrations/models (portable to Postgres later) alternatively use
 knex if you prefer query builder.

2. Project layout

• Simple structure:

```
/backend
|- package.json
|- src/
|- models/  # Sequelize models
|- routes/
|- controllers/
|- db.js  # Sequelize initialization
|- app.js
```

3. IDs

- Use UUID v4 for event_id, registration_id.
- student_id remains as college roll string plus college_id column.

4. API style

- RESTful JSON endpoints:
 - POST /api/events create event (admin)
 - GET /api/events list/filter events
 - POST /api/register register student
 - POST /api/attendance mark attendance
 - POST /api/feedback submit feedba