Approach Document – Campus Event Management Platform

1. Objective

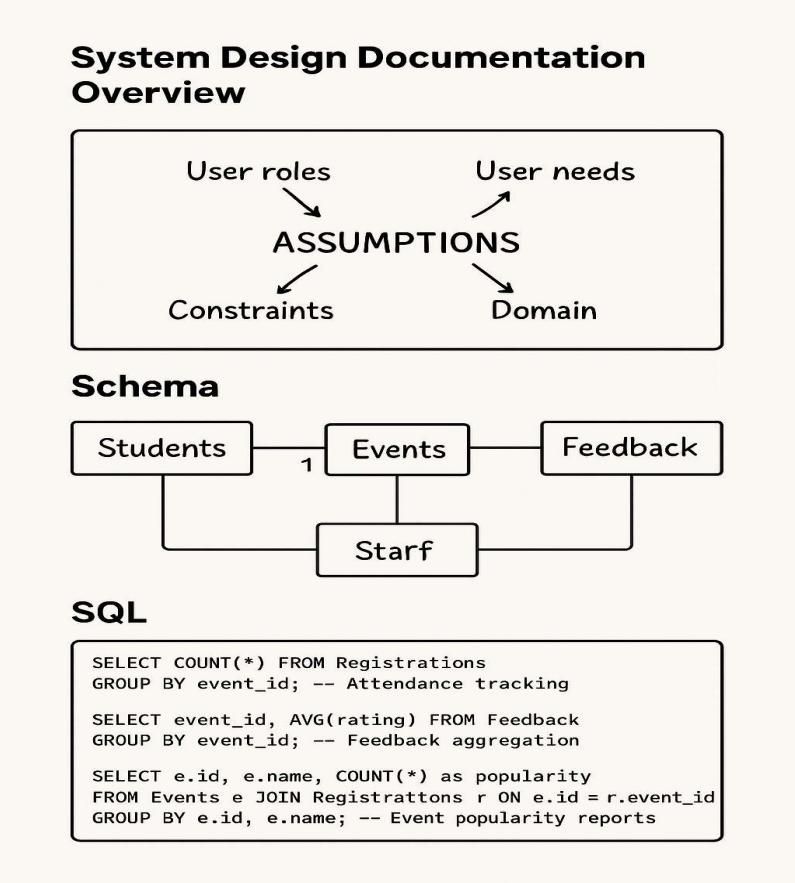
To design a simple, scalable platform that allows students to register for campus events, track attendance, and submit feedback. The system should support reporting features for event popularity and student participation

2. Assumptions

1. **Unique Identifiers**
    - ❖ Each student is identified by a unique StudentID.
    - ❖ Each event is identified by a unique EventID.
2. **Registrations**
    - ❖ Students can register for multiple events.
    - ❖ Duplicate registrations for the same student-event pair are not allowed.
    - ❖ Registration closes once the event starts.
3. **Attendance**
    - ❖ Attendance can be marked only for registered students.
    - ❖ Attendance status can be “Present” or “Absent”.
4. **Feedback**
    - ❖ Feedback is optional.
    - ❖ Students who attended an event can give a rating (1–5).
    - ❖ Multiple feedback entries from the same student for one event are not allowed.
5. **Reports**
    - ❖ Event popularity is measured by total registrations.
    - ❖ Student participation is measured by number of events attended.
    - ❖ Bonus reports may include *Top 3 active students* or *filter by event type*.

3.Use of AI Tools (Brainstorming)

- I used ChatGPT to brainstorm the project requirements and database schema.
- I asked about:
  - Event registration flow
  - ER diagram design
  - Example SQL queries for reports



- I took screenshots of AI conversation logs and saved them in the submission folder.
  - I captured screenshots and stored them under AI_Logs/ for submission.
  - Specifically:
  - log1_assumptions.png → Assumptions brainstorming
  - log2_schema.png → Database schema brainstorming
  - log3_sql.png → SQL queries brainstorming

4.My Own Decisions (Where I Changed Approach)

- AI suggested storing attendance as a Boolean, but I decided to use a string field ("Present"/"Absent") for more flexibility.
- AI proposed using separate event IDs per college, but I decided to keep globally unique EventIDs across colleges to avoid conflicts.
- For feedback, AI suggested text + rating, but I chose only numeric rating (1–5) to keep reports simple.

5. Summary of Approach

- The system design was developed by combining AI brainstorming with my own decisions:
- Start with ER diagram for Students, Events, Registrations, Attendance, Feedback.
- Implement APIs for registration, attendance, feedback, and reports.
- Keep the solution simple and clean, focusing on core deliverables.