

Campus Drive Assignment – Webknot Technologies

Hey Coders!! 🙌

Welcome to your challenge! 🚀

This is not just another coding task — think of it as your chance to showcase how you take a real-world problem, break it down, and build something meaningful out of it. We want to see your creativity, problem-solving skills, and how you bring ideas to life.

AI Assisted coding (**Cursor, Windsurf, Lovable etc**) is what is going to enable you to achieve this deliverable on time.

The Scenario

Imagine you're part of a team building a **Campus Event Management Platform**.

- **Admin Portal (Web):** Used by college staff to create events (hackathons, workshops, tech talks, fests, etc.).
- **Student App (Mobile):** Used by students to browse events, register, and check-in on the event day.

Your mission is to **design and implement a basic event reporting system** for this platform.

What You Need to Do

1. Document Your Approach

- Note down your **assumptions** and **decisions**.
- Use an **LLM tool** (e.g., ChatGPT, Claude, Gemini) to brainstorm.
- Share your **AI conversation log** (screenshots or links).
- Mention where you followed or deviated from AI suggestions.

2. Design Document

Your design doc should cover:

- **Data to Track** → Event creation, student registration, attendance, feedback.

- **Database Schema** → ER diagram or table sketch.
- **API Design** → Endpoints for creating events, registering students, marking attendance, generating reports.
- **Workflows** → Sequence diagrams for registration → attendance → reporting.
- **Assumptions & Edge Cases** → e.g., duplicate registrations, missing feedback, cancelled events.

3. Prototype Implementation

A small, working prototype (any language/framework):

- **Database:** SQLite/Postgres/MySQL.
- Create APIs or scripts to:
 - Register students to an event.
 - Mark attendance.
 - Collect feedback (rating 1–5).
- Provide queries or endpoints for reports:
 - Total registrations per event.
 - Attendance percentage.
 - Average feedback score.

4. Reports

- **Event Popularity Report** → Sorted by number of registrations.
- **Student Participation Report** → How many events a student attended.

Bonus

- Query/report for **Top 3 Most Active Students**.

- Flexible reports (e.g., filter by event type – Workshop/Fest/Seminar).
 - Simple **UI mockups/wireframes** for browsing and registering for events.
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Scale Assumption

Assume the system will be used by ~50 colleges, each with ~500 students and ~20 events per semester.

Consider:


- Should event IDs be unique across colleges?
 - Would you keep data separate per college, or maintain one large dataset?
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Guidelines

- Keep your solution **clear and practical**.
 - **Clean, minimal code** > large incomplete attempts.
 - Document your **assumptions and reasoning**.
 - Use AI to support you, but the **final decisions should be yours**.
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Deliverables

You need to submit a **Zip file (or GitHub repo)** containing: **(If you are sharing the GitHub repo, kindly share access to neel@webknot.in)**

1. **AI conversation log** (screenshots or links).
2. **Design document**.
3. **Prototype code + README** (with setup/run instructions).
 -  **Important:** The README must include *your own understanding* of the project and should be written **personally without using AI tools**. If we suspect AI-generated README content, **your profile will be disqualified**

immediately.

4. **Reports/outputs** (queries or screenshots).

Deadline & Submission

- **Deadline:** 7th September 2025 (Sunday), **before 3:00 PM IST.**
- **Submission:** All assignments must be submitted through the official [Google Form](#).

That's it! We don't just want to see your coding skills — we want to see how you **think, design, and execute**. Don't overcomplicate things. Keep it simple, keep it clean, and most importantly, **have fun building!**

Good luck, and may the best Webknight rise! 🏆✨