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I have an assignment from Webknot Technologies. I need to design a Campus Event Management Platform. Can you help me break it down?

Got it 🙌 Let's break this **Campus Event Management Platform** assignment into clear steps so you can design it properly. Since this is for **Webknot Technologies**, they'll likely want to see your **problem-solving, creativity, and structured thinking** (not just coding).

Step 1: Understand the Problem

The goal is to build a **platform that helps manage and report campus events** (like fests, workshops, seminars, hackathons).

Key pain points in current systems:

- Students don't get timely updates about events.
- Event registration & tracking is scattered.
- Organizers struggle with attendance & feedback.
- Reporting after events is manual.

Step 2: Define Core Features

For Students

- Browse upcoming events (filters: category, date, location).
- Event details page (agenda, speakers, venue, rules).
- Register for events (with QR/ID-based ticket).
- Get notifications/reminders.
- Submit feedback after the event.

For Organizers/Admins

- Create & manage events.
- Anonymous event reports.

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- Categorize events (cultural, technical, sports, etc.)

### 3. Registration & Attendance

- Online registration
- QR code/ID verification at entry

### 4. Notifications & Communication

- Email/SMS/app notifications
- Announcements

### 5. Feedback & Reporting

- Rating system (1-5 stars + comments)
- Generate attendance/feedback reports

#### Step 4: Tech Stack (suggested)

- Frontend: ReactJS / Angular + TailwindCSS
- Backend: Node.js (Express) / Django / Flask
- Database: MySQL / PostgreSQL / MongoDB
- Authentication: JWT or OAuth
- Extras: QR Code library, Chart.js/D3.js for reports

#### Step 5: UI/UX Design (High-Level)

- Homepage: List of upcoming events + filters
- Event Page: Title, date, description, register button
- Dashboard (for admins):
  - Event management panel
  - Attendance tracking
  - Feedback summary charts

#### Step 6: Architecture Diagram (Simple Flow)

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- Dashboard (for admins):
  - Event management panel
  - Attendance tracking
  - Feedback summary charts

### Step 6: Architecture Diagram (Simple Flow)

```
css
Student → [Frontend UI] → [Backend API] → [Database]
Organizer → [Dashboard] → [Backend API] → [Database]
Admin → [Control Panel] → [Backend API] → [Database]
```

Copy code

### Step 7: Possible Extensions (for bonus points 🌟)

- AI-powered event recommendations for students
- Real-time chat/forum for event discussions
- Integration with Google Calendar
- Leaderboard for active participants

👉 Preetham, do you want me to also create a structured assignment report (like PDF with problem statement, modules, architecture, and mock UI screens) so it looks professional when you submit it?

👍 🗨️ 🔄 ⋮

What assumptions should I make before designing?

Great question 🙌 — before you start designing your Campus Event Management Platform, it's smart to lay down some assumptions. Here are a few key ones to consider:

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1. Authentication is required using OAuth2 or password.

2. Event registration is first-come-first-serve until capacity is reached.

3. Attendance is marked digitally (QR code scanning / check-in system).

4. Notifications are sent via email or in-app alerts.

5. Feedback is anonymous or tied to student ID depending on admin choice.

6. Reports include attendance count, participation stats, and average ratings.

◆ Technical Assumptions

• Backend server is secure, scalable, and supports concurrency.

• Database supports relationships (one event → many registrations, one student → many events).

• System is designed with role-based access control.

• For simplicity, assume single campus deployment (multi-campus is future enhancement).

◆ Scope Assumptions (to set boundaries)

• Payment integration, AI recommendations, and mobile app are future enhancements, not core requirements.

• The platform focuses only on campus events, not external/public events.

• Multi-language support is optional and not in the first version.

By listing these assumptions, you show Webknot that you've thought through real-world constraints and defined boundaries clearly.

Do you want me to frame these assumptions in a neat professional report format (Problem → Assumptions → Solution approach) so you can directly submit it as part of your assignment?

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Okay. What should my database schema look like?

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Okay. What should my database schema look like?

Perfect — let's design a clean database schema for your Campus Event Management Platform. Since this is the backbone, it should cover users, events, registrations, attendance, and feedback.

Entities & Relationships

We'll need these main tables:

1. Users → Students, Organizers, Admins

2. Events → Details of each event

3. Registrations → Tracks which student registered for which event

4. Attendance → Tracks actual participation

5. Feedback → Collects ratings and comments

6. (Optional) Notifications → Stores alerts/messages

Database Schema (Relational Model)

1. Users Table

```
sql
CREATE TABLE Users (
  user_id INT PRIMARY KEY AUTO_INCREMENT,
  name VARCHAR(100) NOT NULL,
  email VARCHAR(100) UNIQUE NOT NULL,
  password VARCHAR(255) NOT NULL,
  role ENUM('student', 'organizer', 'admin') NOT NULL,
  student_id VARCHAR(20), -- only for students
  created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP
);
```

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4. Reports

Run SQL queries

Total registrations per event

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sql

SELECT event\_id, COUNT(\*) AS total\_registrations

FROM Registrations

GROUP BY event\_id

ORDER BY total\_registrations DESC;

Attendance percentage

Copy code

sql

SELECT event\_id,

(SUM(CASE WHEN status = 'present' THEN 1 ELSE 0 END) \* 100.0 / COUNT(\*)) AS attendance,

FROM Attendance

GROUP BY event\_id;

Average feedback

Copy code

sql

SELECT event\_id, AVG(rating) AS avg\_feedback

FROM Feedback

GROUP BY event\_id;

Top 3 Active Students

Copy code

sql

SELECT student\_id, COUNT(event\_id) AS attended\_events

FROM Attendance

WHERE status = 'present'

GROUP BY student\_id

ORDER BY attended\_events DESC

LIMIT 3;

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What APIs should I create?

Great step — once you have the database schema, the next layer is designing the APIs (RESTful endpoints). Since your Campus Event Management Platform will have students, organizers, and admins, the APIs should cover authentication, event management, registration, attendance, feedback, and notifications.

Here's a structured list you can use in your assignment

- 1. Authentication & User Management
  - POST /api/auth/register → Register a new user (student/organizer).
  - POST /api/auth/login → Login and get JWT token.
  - GET /api/users/id → Get user profile.
  - PUT /api/users/id → Update user details.
  - DELETE /api/users/id → Delete user (admin only).
- 2. Event Management
  - POST /api/events → Create a new event (organizer/admin only).
  - GET /api/events → Get list of events (with filters: category, date, venue).
  - GET /api/events/id → Get event details.
  - PUT /api/events/id → Update event details (organizer/admin only).
  - DELETE /api/events/id → Delete/cancel event (organizer/admin only).
- 3. Event Registration
  - POST /api/events/id/register → Register student for an event.
  - GET /api/events/id/registrations → Get list of registered students (organizer/admin only).

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- GET /api/events/{id} → Get event details.
- PUT /api/events/{id} → Update event details (organizer/admin only).
- DELETE /api/events/{id} → Delete/cancel event (organizer/admin only).

### 3. Event Registration

- POST /api/events/{id}/register → Register student for an event.
- GET /api/events/{id}/registrations → Get list of registered students (organizer/admin only).
- DELETE /api/events/{id}/register/{userId} → Cancel a student's registration.

### 4. Attendance Management

- POST /api/attendance/checkin → Mark student attendance (via QR code/registration ID).
- GET /api/events/{id}/attendance → View attendance list for an event.

### 5. Feedback System

- POST /api/events/{id}/feedback → Submit feedback for an event.
- GET /api/events/{id}/feedback → View all feedback for an event (organizer/admin).
- GET /api/events/{id}/feedback/summary → Get average rating & stats (charts).

### 6. Notifications (Optional but Nice-to-Have 📧)

- POST /api/notifications → Send notification to a user/group.
- GET /api/notifications → Get logged-in user's notifications.
- PUT /api/notifications/{id}/read → Mark notification as read.

### 7. Reports & Analytics

- GET /api/reports/events/{id} → Get report of a specific event (registrations, attendance, feedback).
- GET /api/reports/summary → Get overall campus event summary (admin dashboard).

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Can you give me SQL queries for the reports?

Perfect — reports will really impress Webknot, since they show how useful your Campus Event Management Platform is for admins/organizers. Based on your schema, here are the SQL queries you can include for generating event reports:

1. Total Registrations per Event

sqlCopy code

```
SELECT e.event_id, e.title, COUNT(r.registration_id) AS total_registrations
FROM Events e
LEFT JOIN Registrations r ON e.event_id = r.event_id AND r.status = 'registered'
GROUP BY e.event_id, e.title;
```

Shows how many students registered for each event.

2. Attendance Report per Event

sqlCopy code

```
SELECT e.event_id, e.title,
COUNT(a.attendance_id) AS total_checked_in,
SUM(CASE WHEN a.status = 'present' THEN 1 ELSE 0 END) AS present_count,
SUM(CASE WHEN a.status = 'absent' THEN 1 ELSE 0 END) AS absent_count
FROM Events e
LEFT JOIN Registrations r ON e.event_id = r.event_id
LEFT JOIN Attendance a ON r.registration_id = a.registration_id
GROUP BY e.event_id, e.title;
```

Shows how many students actually attended (present vs absent).

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What about the reports I need to show?

Excellent question — the reports you show in your Campus Event Management Platform are what make the project feel complete and useful for admins/organizers. Since Webknot will expect both data-driven reports and visual dashboards, here's a structured list you can present:

Reports to Show (with Example Insights)

1. Event Summary Report

- Total events created (by category: technical, cultural, sports, seminars).
- Example: "10 technical events, 5 cultural, 2 sports in the last semester."

2. Event Registration Report

- Registrations per event.
- Breakdown: registered vs available capacity.
- Example: "Hackathon 2025: 250/300 seats filled."

3. Attendance Report

- Attendance vs registrations.
- Present vs absent students.
- Example: "Out of 250 registered, 210 attended (84%)."

4. Feedback & Ratings Report

- Average rating per event.
- Top-rated events (5★ workshops, 4.8★ cultural fest, etc.).

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Should I build a full UI?

That's a smart consideration, Preetham 🙌

For an assignment like this (Webknot Technologies challenge), you don't necessarily need to build a full, production-ready UI. What matters is showing that you:

1. Understood the problem (assumptions, requirements).
2. Designed the solution (schema, APIs, reports, workflows).
3. Can translate it into a working prototype if given time.

Options for Your UI Approach

Minimum (Good Enough for Assignment)

- Create wireframes/mockups of key screens:
  - Login/Register
  - Event List + Filters
  - Event Details Page (Register button)
  - Admin Dashboard (Reports/Charts)
- Tools: Figma, Canva, Balsamiq, or even simple PPT slides.
- Benefit: Saves time, shows design thinking.

Intermediate (Impressive for Demo)

- Build a basic frontend prototype (with dummy data).
- Stack: React + Tailwind CSS (or plain HTML/CSS if short on time).
- Show 3-4 working pages:
  - Event List → Event Details → Registration
  - Admin Dashboard → Reports (charts using Chart.js/Recharts)

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The screenshot shows a web browser window with multiple tabs open, including 'Webknot Technologies Pvt.', 'Event Management System', 'Campus event reporting', 'Download file | iLovePDF', 'Preetham28U/campus\_event', and 'Campus event platform'. The active tab is 'chatgpt.com/c/68bd0bb0-f1dc-832d-8da2-72b8eee7caa3'. The ChatGPT interface is in dark mode. The chat history shows a conversation about an 'Event Management System' project. The AI suggests an 'Intermediate route' for a React/Tailwind prototype, listing tasks like building a basic prototype, adding dummy data, using Chart.js/Recharts, and preparing a report document. The user asks for a minimal React UI code draft, and the AI responds with a placeholder for the code.

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- Admin Dashboard → Reports (charts using Chart.js/Recharts)
- Benefit: Shows coding ability without needing full backend.

---

✅ **Full UI (Best but Time-Consuming)**

- Complete frontend + backend integration.
- User login, event creation, registration, feedback, reports.
- Full CRUD + JWT authentication.
- Benefit: Looks like a real product, but requires 1-2 weeks to polish.

---

💡 **My Suggestion for You**

Since this is an assignment/test, I'd recommend the **Intermediate route**:

- Build a basic **React/Tailwind** prototype with a few pages.
- Add **dummy data** for events & reports.
- Use **Chart.js/Recharts** to show dashboards.
- Prepare a **report document (PDF)** with:
  - Problem Statement
  - Assumptions
  - Database Schema
  - APIs List
  - Sample **SQL Queries (Reports)**
  - UI Screenshots

This way, you demonstrate **design, coding, and reporting skills** without overengineering.

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👉 Do you want me to draft a **minimal React UI code (with Event List + Dashboard mockup)** so you can use it as your frontend prototype?

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this helps me structure the entire assignment!

That's awesome to hear, Preetham 🎉💯

Here's how you can now structure your Campus Event Management Platform assignment so it looks professional and well thought out:

Suggested Assignment Structure

1. Cover Page

- Title: *Campus Event Management Platform*
- Your Name, Roll Number, Date, College, Company (Webknot Technologies).

2. Abstract

- Brief overview of the problem and proposed solution (3-4 lines).

3. Problem Statement

- Current issues with managing campus events (registrations, attendance, feedback).
- Why a centralized platform is needed.

4. Assumptions

- User roles (students, organizers, admins).
- Events have categories, capacity, time, venue.
- Registrations are online, attendance via QR code ↓
- Feedback is collected digitally.

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- List of endpoints (Auth, Events, Registrations, Feedback, Reports).

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**9. Reports**

- SQL queries for reports (Registrations, Attendance, Feedback, Trends).
- Mention charts/tables (Bar, Pie, Line for dashboards).

---

**10. UI/UX Design**

- Wireframes/mockups/screenshots of:
  - Login/Register
  - Event List
  - Event Details & Registration
  - Admin Dashboard with Reports

---

**11. Future Enhancements**

- Mobile app
- Payment integration
- AI-based event recommendations
- Multi-campus support

---

**12. Conclusion**

- How the platform improves event management efficiency.

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✓ If you structure it like this, you'll cover all angles — problem analysis, technical depth, and design thinking.

✓ And even if you only build a small prototype, the documentation will showcase your full vision.

+ Ask anything

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