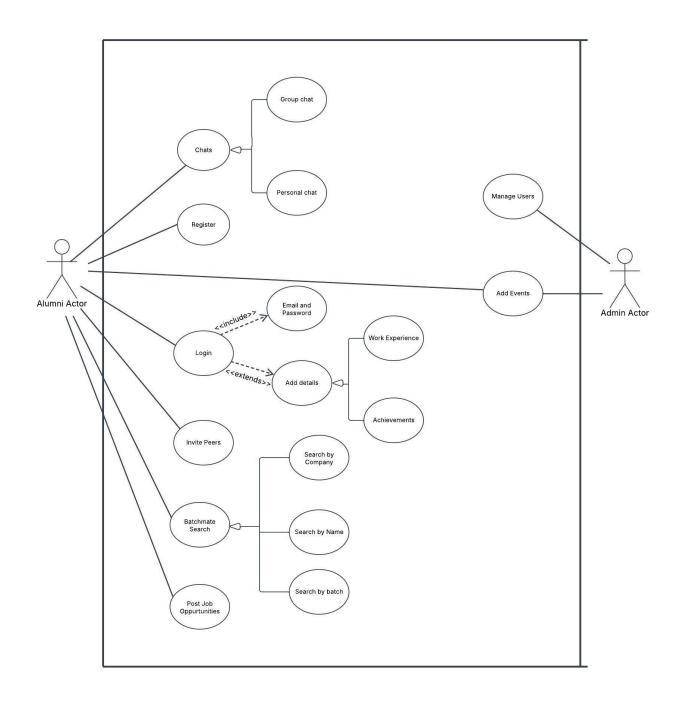
Software Requirement Specifications

Project: Alumni Network

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Use Case Diagram



FUNCTIONAL REQUIREMENTS

1. User Authentication & Profile Management

1.1 User Registration

- The system must allow alumni to register using one of the following methods:
 - Method 1: Using Email and Password
 - The user must provide the following details:
 - First Name
 - Last Name
 - Email Address
 - Phone Number
 - Batch (Graduation Year)
 - Roll Number
 - Department
 - Profile Picture (optional)
 - Password
 - Method 2: Using Google Login (OAuth 2.0)
 - The user must be able to register using Google Sign-In.
 - If logging in for the first time, the system must prompt the user to complete missing details (Batch, Roll Number, Department, Phone Number, and Profile Picture).

1.2 User Login

- Users must be able to log in using:
 - Email & Password (validated against stored credentials).
 - o Google Login (OAuth 2.0).

1.3 Profile Management

- Users must be able to view their profile details, including:
 - Profile Picture
 - o Name
 - o Email
 - o Phone Number
 - Graduation Batch
 - o Roll Number
 - Department

2. Role Base Access Control

2.1 Alumni Role

Each alumni user has:

- A personal profile page displaying:
 - Basic details (Name, Profile Picture, Graduation Year, Department)
 - Work Experience
 - Achievements
 - Job Opportunities Posted
 - Events Created
- Alumni can add or delete:
 - Work Experience
 - Achievements

2.2 Admin Role

The Admin Dashboard provides an overview of:

- Total number of registered members
- User management options, including the ability to:
 - View all registered alumni
 - Delete members if necessary
- Event management, allowing admins to:
 - Create or delete events

3. Alumni Interaction Features

3.1 Searching for Alumni

- Users must be able to search for batchmates using the following filters:
 - Name
 - o Graduation Year
 - Company
- The system must display search results in a card-based format, showing:
 - o Profile Picture
 - Name
 - o Graduation Year

3.2 Viewing Alumni Profiles

- Users must be able to view detailed alumni profiles by clicking on a profile from the search results.
- Profiles must display work experience and achievements.

3.3 Direct Messaging

- Users must be able to access the chat section from the navigation menu.
- In the chat interface, users must see a search bar to find and select a specific alumni for messaging.
- Users must be able to send direct messages to alumni.

3.4 Group Discussions

- In the chat section, users must see a "Groups" tab where all existing groups are displayed.
- Users must be able to:
 - Search for and join any public group of interest.
 - View a list of groups they are already a member of.
- Once inside a group, users must be able to:
 - Send messages.
 - View the list of group members.

3.5 Work Experience & Achievements

Work Experience

- Users must be able to add and manage their work experience on their profile.
- Each work experience entry must include:
 - Company Name
 - Role/Designation
 - Location (On-Site, Remote, or City/State)
 - Start Date and End Date
 - Description (key responsibilities, projects, or accomplishments)
- Users must be able to delete any work experience entry.
- The system must display all work experiences in chronological order on the alumni's profile.

Achievements

- Users must be able to add achievements to showcase their milestones.
- Each achievement entry must include:
 - Title (e.g., "Best Employee Award 2024")
 - Date of Achievement
 - Category (e.g., Technical, Leadership, Research, Volunteering, Sports, etc.)

- Description (brief details about the achievement)
- Organization/Issuing Authority
- Supporting Documents (optional file upload for certificates, images)
- Users must be able to remove achievements at any time.
- Achievements must be displayed in a dedicated section on the alumni's profile.

4. Networking & Invitations

On the home page, after logging in, users must see an "Invite Peers" button.

- Clicking on "Invite Peers" must open an input field where the user can enter the email address of the alumni they wish to invite.
- After entering the email, users must be able to send an invitation.
- The system must send an invitation email from the admin email account to the provided email address.
- The recipient must receive an email containing:
 - A personalized invitation message
 - A registration link to join the platform

5. Event & Job Board Management

5.1 Event Management

- The system must have an "Events" section in the navigation bar, accessible after login.
- Both admins and alumni must be able to create events by providing:
 - Event Name
 - Description
 - o Event Type (Workshop, Reunion, Meetup, Webinar, etc.)
 - Organizer Name
 - o Date & Time
 - Venue (Physical Location or Virtual Link)
 - Contact Person Email
- Users must be able to delete only the events they created.
- The event list must be displayed in chronological order, with upcoming events shown first.

5.2 Job Board Management

- The system must have a "Job Board" section.
- Alumni must be able to post job opportunities by providing:

- Job Title
- Company Name
- Location (On-Site, Hybrid, Remote)
- Job Type (Full-Time, Part-Time, Internship, Contract)
- Experience Level (Entry-Level, Mid-Level, Senior)
- Required Skills
- Job Description
- Application Deadline
- Application Link (LinkedIn or External Website)
- Contact Information (Recruiter's Email or Phone)
- Posted jobs must be visible to all alumni for browsing and applying.
- Alumni must be able to delete only the job postings they have created.

6. Gamification & Engagement

6.1 Points System

- Users must earn points for completing activities:
 - Sending Invitations → +20 points per invite
 - Post Job Oppurtunities →+10 points
 - Post Achievements →+10 points
 - Creating events → +10points
- The system must update and display user points in real-time.

6.2 Leaderboard & Badges

- The system must display a Leaderboard showcasing the top users based on points earned.
- Users must accumulate points through platform activities, such as:
 - Sending invitations
 - Posting job opportunities
 - Creating events
 - Posting Achievements

Badges System

- Users must earn badges based on their total points.
- The system must automatically assign badges when users reach specific point thresholds.
- Badge Levels:
 - \circ Bronze \rightarrow 0 49points
 - $_{\circ}$ Silver \rightarrow 50- 99 points
 - \circ Gold \rightarrow 100 199 points
 - \circ Platinum \rightarrow 200 499 points
 - \circ Diamond \rightarrow 500+ points
- Users must be able to view their earned badges on their profile.

NON-FUNCTIONAL REQUIREMENTS

1. Performance Requirements

- The system should efficiently handle 100's of concurrent users.
- Profile searches should return results within a few seconds.

2. Security Requirements

- Implement OAuth 2.0 authentication for secure login.
- Profile data should be encrypted and access-controlled.

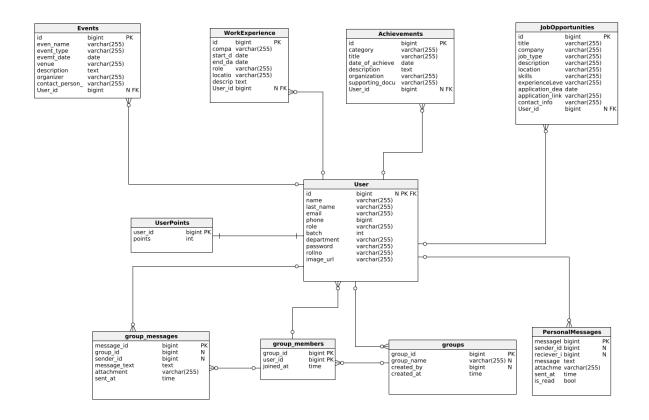
3. Usability Requirements

- The UI should be responsive and user-friendly.
- Simple and intuitive navigation for all alumni.

4. Scalability & Maintainability

- The system should allow future expansion for more features.
- Codebase should follow modular architecture for easy maintenance.
- The database used is MySQL, designed to support large volumes of alumni profiles, job postings, and messages efficiently.

Data Base Design



Class Diagram

