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Title: Alumni Connect : A Hybrid Cloud and AI based Alumni Students Engagement System

Problem addressed: College's struggle to maintain strong alumni-student engagement due to the lack of a structured platform. Traditional methods like manual alumni databases, social media groups, and events are unstructured and ineffective, leading to low participation rates and missed opportunities. There is no centralized system to track student-alumni interactions, making it difficult to measure engagement and effectiveness. Additionally, alumni often have limited ways to give back to their institutions, resulting in underutilized expertise. A dedicated college-to-student platform is essential to bridge this gap by enabling structured

mentorship programs, career discussions, verified alumni networking, and real-time interactions. This secure, AI-driven, and college-managed environment allows students to easily access guidance from experienced alumni, while colleges can actively facilitate engagement and track mentorship progress.

Present scenario: Currently, alumni engagement is managed through **social media groups, email lists, and occasional events**, which are **not structured or scalable**. Some institutions have alumni portals, but they **lack AI-based matchmaking, real-time communication tools, and proper verification systems**. This results in **limited student access to valuable alumni connections, fewer mentorship opportunities, and ineffective job**

Methodology:

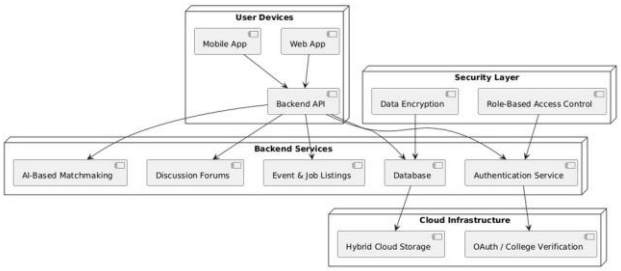
The following technologies will be used for developing hybrid system:

- **Hybrid Cloud Architecture:** Ensures scalable, secure data storage and access for students, alumni, and administrators.
- **Flutter for Mobile & Web Development:** Provides cross-platform accessibility with a seamless user experience.
- **AI-Based Matching System:** Recommends relevant mentors, jobs, and discussions based on a student's academic background and career interests.
- **Role-Based Access Control (RBAC):** Ensures secure authentication and verification of students, alumni, and college administrators.
- **Discussion Forums & Live Chat:** Allows students to ask career-related questions, participate in webinars, and get real-time guidance from alumni.

Innovation component:

- **Providing Verified Networking:** Only authenticated **college alumni and students** can register, ensuring **genuine connections**.
- **Offering AI-Driven Career Guidance:** Intelligent matchmaking between **students and suitable alumni mentors** based on career goals and industry experience.
- **Seamlessly Managing College-Alumni Interactions:** Colleges can **verify alumni profiles, host career events, and track student-alumni engagement** to ensure **effective mentorship programs**.
- **Integrating Job & Internship Listings:** Alumni can **post job opportunities**, refer students, and assist in career growth.

System architecture:



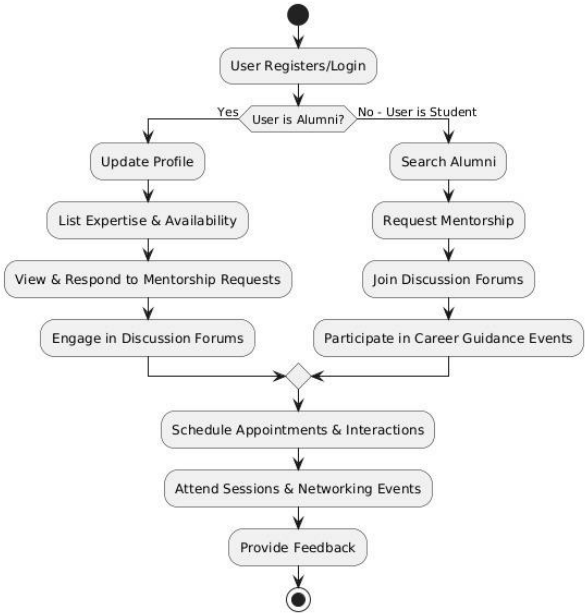
Application of the project

- **Colleges & Universities:** Helps institutions maintain an **active and structured alumni network**.
- **Students:** Enables direct **mentorship, career advice, and job placements** from experienced alumni.
- **Alumni:** Allows professionals to **give back to their college** by mentoring students and offering career opportunities.

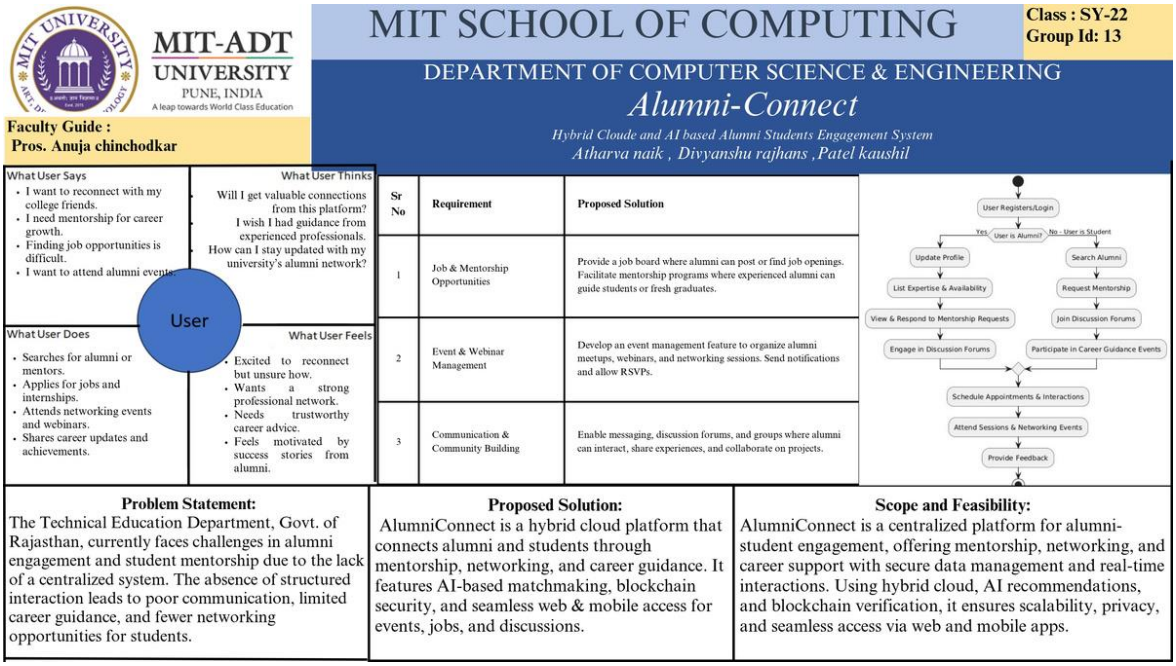
Abstract:

AlumniConnect is a hybrid cloud and AI-powered platform designed to bridge the gap between alumni and students, fostering robust communication, mentorship, and career guidance. The platform centralizes alumni data, ensuring secure and up-to-date profiles through cloud-based storage and blockchain verification. Key features include a mentorship program where students can connect with alumni based on industry or career goals, interactive discussion forums for knowledge exchange, and job assistance with alumni posting job openings or providing referrals. The AI-based system enhances the user experience by offering personalized alumni match suggestions, moderating content, and providing automated career insights through skill gap analysis. The platform is designed with scalability in mind, leveraging hybrid cloud infrastructure for secure data storage and easy access. Additionally, fraud prevention mechanisms like blockchain-based profile verification and advanced pattern recognition algorithms detect fake accounts, ensuring the authenticity of user profiles. A user-friendly mobile and web app ensures seamless access to all features, with push notifications keeping users informed about mentorship opportunities, events, and job postings. AlumniConnect aims to create a dynamic and supportive network that benefits both students and alumni, enhancing professional growth and fostering lifelong engagement within academic communities.

Flowchart:


User Registers/Login
User is Alumni?
Yes
No - User is Student
Update Profile
List Expertise & Availability
View & Respond to Mentorship Requests
Engage in Discussion Forums
Search Alumni
Request Mentorship
Join Discussion Forums
Participate in Career Guidance Events
Schedule Appointments & Interactions
Attend Sessions & Networking Events
Provide Feedback

Poster:


MIT-ADT UNIVERSITY
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Group Id: 13
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
Alumni-Connect
Hybrid Cloude and AI based Alumni Students Engagement System
Atharva naik , Divyanshu rajhans ,Patel kaushil
Faculty Guide :
Pros. Anuja chinchodkar
What User Says
I want to reconnect with my college friends.
I need mentorship for career growth.
Finding job opportunities is difficult.
I want to attend alumni events.
What User Thinks
Will I get valuable connections from this platform?
I wish I had guidance from experienced professionals.
How can I stay updated with my university's alumni network?
User
What User Does
Searches for alumni or mentors.
Applies for jobs and internships.
Attends networking events and webinars.
Shares career updates and achievements.
What User Feels
Excited to reconnect but unsure how.
Wants a strong professional network.
Needs trustworthy career advice.
Feels motivated by success stories from alumni.
Sr No
Requirement
Proposed Solution
1
Job & Mentorship Opportunities
Provide a job board where alumni can post or find job openings. Facilitate mentorship programs where experienced alumni can guide students or fresh graduates.
2
Event & Webinar Management
Develop an event management feature to organize alumni meetups, webinars, and networking sessions. Send notifications and allow RSVPs.
3
Communication & Community Building
Enable messaging, discussion forums, and groups where alumni can interact, share experiences, and collaborate on projects.
Problem Statement:
The Technical Education Department, Govt. of Rajasthan, currently faces challenges in alumni engagement and student mentorship due to the lack of a centralized system. The absence of structured interaction leads to poor communication, limited career guidance, and fewer networking opportunities for students.
Proposed Solution:
AlumniConnect is a hybrid cloud platform that connects alumni and students through mentorship, networking, and career guidance. It features AI-based matchmaking, blockchain security, and seamless web & mobile access for events, jobs, and discussions.
Scope and Feasibility:
AlumniConnect is a centralized platform for alumni-student engagement, offering mentorship, networking, and career support with secure data management and real-time interactions. Using hybrid cloud, AI recommendations, and blockchain verification, it ensures scalability, privacy, and seamless access via web and mobile apps.