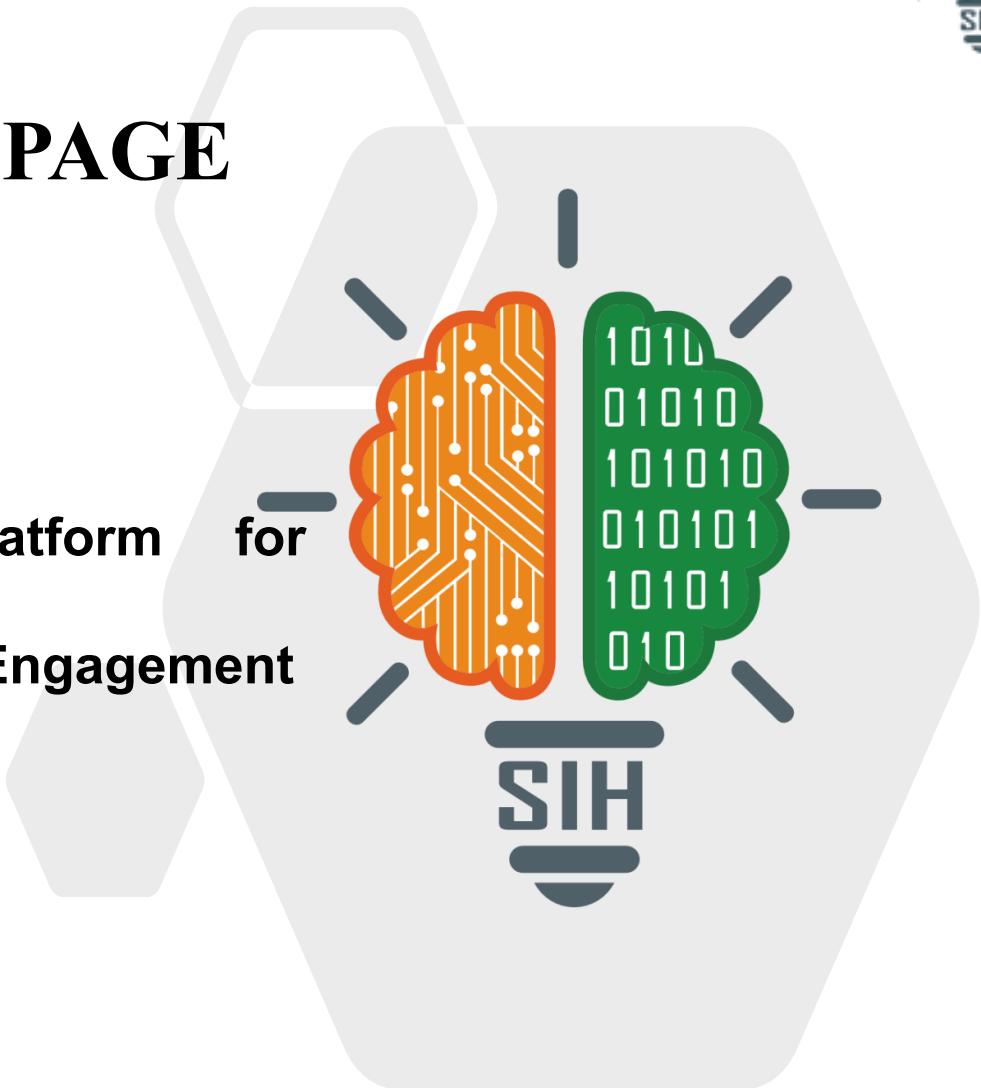


SMART INDIA HACKATHON 2025



TITLE PAGE

- Problem Statement ID – 25017
- Problem Statement Title- Digital Platform for Centralized Alumni Data Management and Engagement
- Theme- Smart Education
- PS Category- Software
- Team ID- MITE-EDC-SIH-2025-121
- Team Name (Registered on portal) : SAMPARK

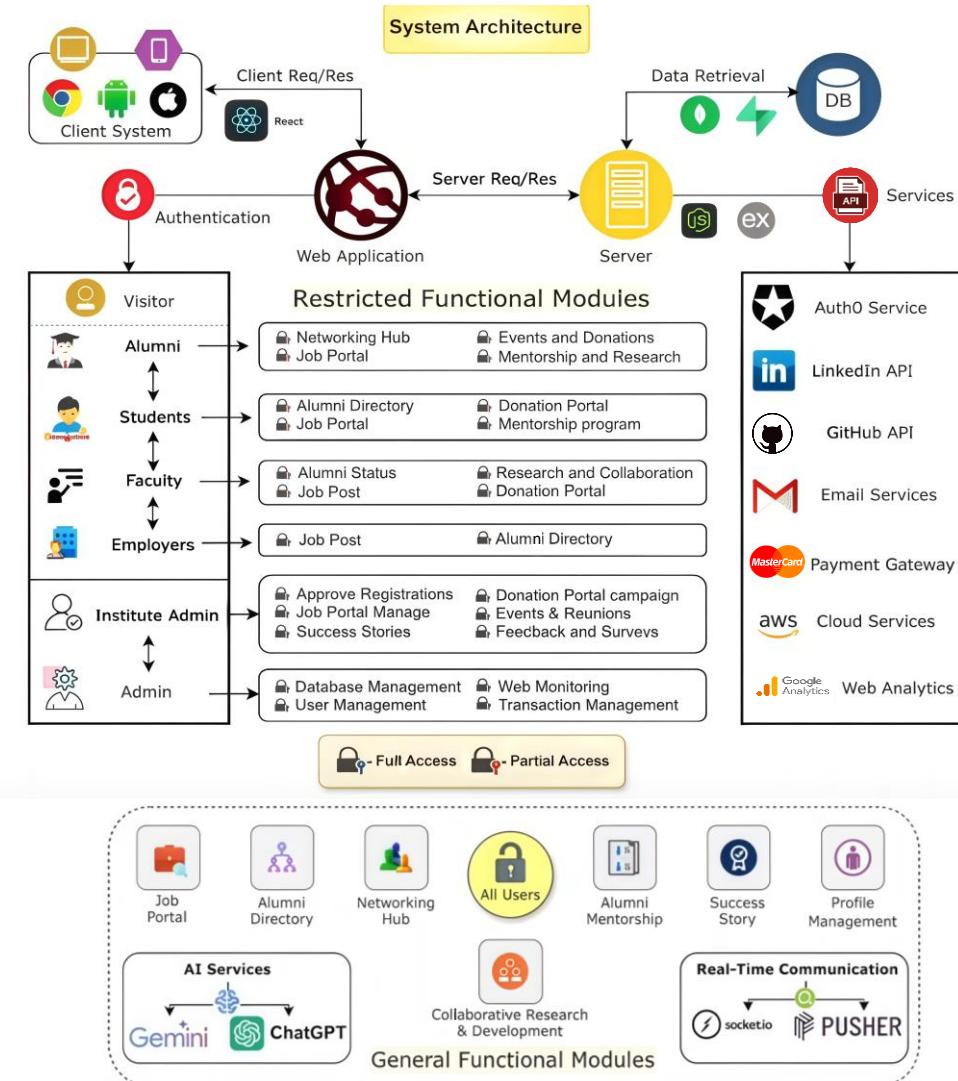


❖ Proposed Solution

- Smart Networking Hub:** Uses AI to suggest meaningful professional connections, helping you find collaborators, **mentors**, and new opportunities within the trusted **alumni** network.
- Blockchain-Secured Donations:** Ensures all financial contributions are completely **secure** and **transparent**, building trust in the donation process.
- AI Career Advisor:** Analyzes your professional profiles (like **LinkedIn** and **Github**) to provide personalized **career** guidance and match you with the right mentor.
- CEM Model (Connect, Engage, Mentor):** Our guiding philosophy to foster genuine interactions, knowledge sharing, and professional **growth** within the community.
- LEAD Program (Learn, Engage, Advance, Develop):** Offers a **continuous** stream of resources, workshops, and tools for career and personal development.
- JEN Hub (Job-matching, Employment Networking):** A smart job portal for alumni to find and post opportunities, while also facilitating **mentorship** for current students.

Other Features:

- Collaborative Research
- Success Story Tracking
- Events and Reunions
- Feedbacks and Surveys
- Startup Incubator
- Gamification & Rewards



TECHNICAL APPROACH



❖ Technology Stack

Frontend : React Js, Next Js, Tailwind CSS, jQuery,

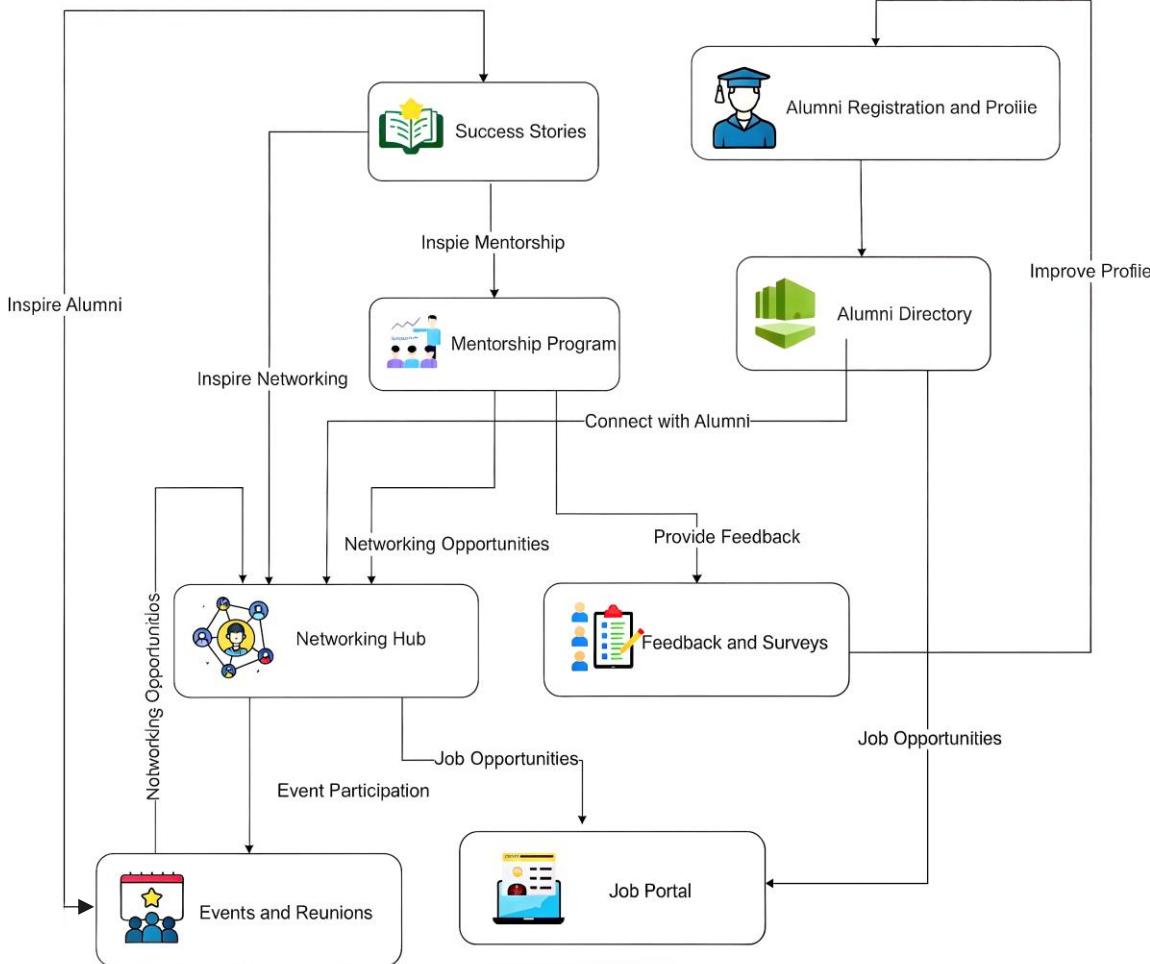
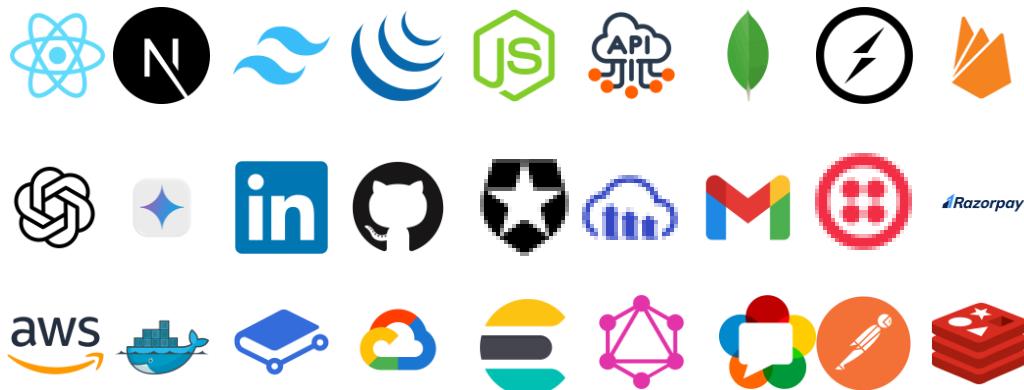
Backend : Node Js, Express Js, REST API, MongoDB, Supabase, Firebase, Socket IO.

AI & ML : ChatGPT 5.0 or Gemini 2.5 Pro.

API Services: LinkedIn API, GitHub API, Auth0, Cloudinary, Gmail, Raizor Pay, Twilio.

Cloud & Deployment: AWS, Docker, GitHub, Gitbook, GCP.

Add-Ons: Redis, ElasticSearch, GraphQL, WebRTC, Postman.



FEASIBILITY AND VIABILITY



Feasibility:

1. Technical: Utilizes existing technologies (web, mobile, AI, blockchain)
2. Modularisation: Modular design allows phased implementation
3. Market: Strong demand for alumni engagement solutions
4. Economic: Low initial investment with cloud-based infrastructure

Viability:

1. Multiple revenue streams: Subscriptions, transaction fees, partnerships
2. Large potential user base: Millions of graduates worldwide
3. Scalable: Can expand from single institution to multiple universities
4. Long-term value: Facilitates continuous alumni engagement and donations

Challenges:

1. Data privacy and security concerns
2. User experience: User adoption and sustained engagement
3. System integration with existing university systems
4. Keeping pace with rapidly evolving technologies

Solutions:

1. Implement robust encryption and comply with data protection regulations
2. Utilize gamification and AI-driven personalization to boost engagement
3. Develop flexible APIs for seamless integration with university databases
4. Establish a dedicated team for continuous platform updates and improvements

Use Cases:

1. Recent graduates seeking career guidance & networking opportunities
2. Established alumni looking to give back through mentorship or donations
3. University administrators tracking alumni success and engagement metrics
4. Current students connecting with alumni for internships or career advice

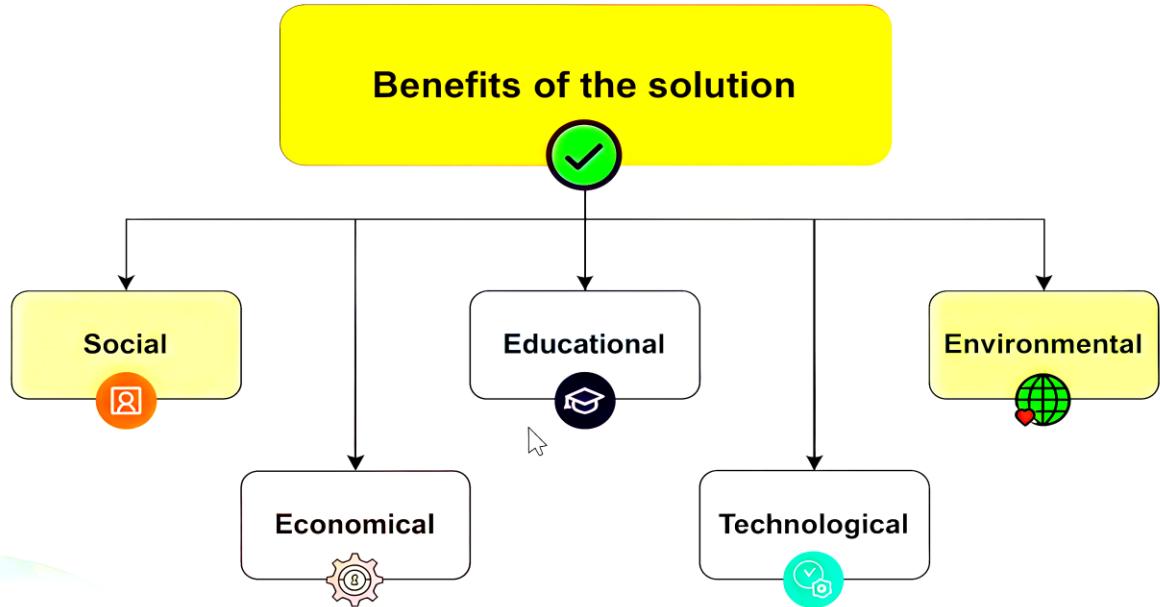
Business Potential:

1. Subscription model for premium features
2. Transaction fees for job postings and event registrations
3. Partnerships with companies for targeted alumni recruitment
4. Data analytics services for universities and employers
5. Crowdfunding and investment opportunities for alumni startups

Supporting Facts for Feasibility and Viability:

- ❖ According to a 2021 survey by the CASE, 73% of educational institutions reported an increase in alumni engagement initiatives.
- ❖ A 2022 study by LinkedIn found that alumni networks can significantly impact career opportunities, with 85% of hiring managers considering alumni connections important in recruitment.

IMPACT AND BENEFITS



❖ Benefits of the solution

Social:

- Fosters a strong, supportive alumni community across generations.
- Facilitates knowledge sharing & mentorship, benefiting both alumni & current students.
- Promotes diversity and inclusion through global networking opportunities.

Economic:

- Accelerates alumni career growth and fosters entrepreneurship.
- Enhances university funding, leading to improved facilities and programs.
- Generates tech sector jobs while connecting alumni to diverse opportunities.

Educational:

- Provides real-world insights and opportunities for current students.
- Enhances the institution's reputation through showcasing alumni success.
- Facilitates lifelong learning through continuous education features.

Technological:

- Drives adoption of AI and blockchain technologies in educational contexts.
- Promotes digital literacy among alumni of all ages.
- Encourages innovation in EdTech, potentially leading to spinoff technologies.

Environmental:

- Reduces the need for physical alumni events, lowering carbon footprint.
- Digitizes alumni engagement processes, reducing paper waste.
- Enables virtual networking and mentoring, decreasing travel-related emissions.

❖ Potential impact on the target audience:

Increased alumni engagement: The platform can boost alumni participation rates by 30-50%.

Enhanced career opportunities: Alumni may see a 20-30% increase in job prospects through the networking features.

Improved fundraising: Universities can potentially increase alumni donations by 15-25%.

Stronger alumni-student connections: Mentorship programs can lead to a 25-40% increase in student career readiness.

RESEARCH AND REFERENCES



❖ References

Alumni Platforms:

- Almaconnect: <https://www.almaconnect.com/>
- Graduway: <https://gravyty.com/graduway/>
- Hivebrite: <https://hivebrite.io/>

Research & Best Practices:

- [Alumni Engagement Best Practices:](#)
- [Impact of Alumni Networks:](#)
- [AI in Higher Education:](#)
- [Mobile Apps for Alumni Engagement](#)

Feasibility Facts:

- [Univariety Blog](#)

❖ Comparision with Existing Systems

Feature	SAMPARK	AlmaConnect	Graduway	HiberVite
Job Portal	✓	✓	✓	✓
Networking Hub	✓	✓	✓	✓
Alumni Directory	✓	✓	✓	✓
Events and Reunions Management	✓	✓	✓	✓
Donation Portal	✓	✓	✗ (Basic)	✓
Gamification and Rewards	✓	✗	✓	✗ (Basic)
Collaborative Research Hub	✓	✗	✗	✗
Alumni Start-up Incubator and Investment Hub	✓	✗	✗	✗
AI Driven Network Assistant and Career Adviser	✓	✗	✗	✗