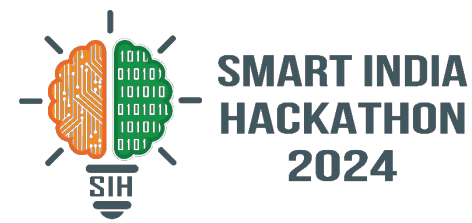
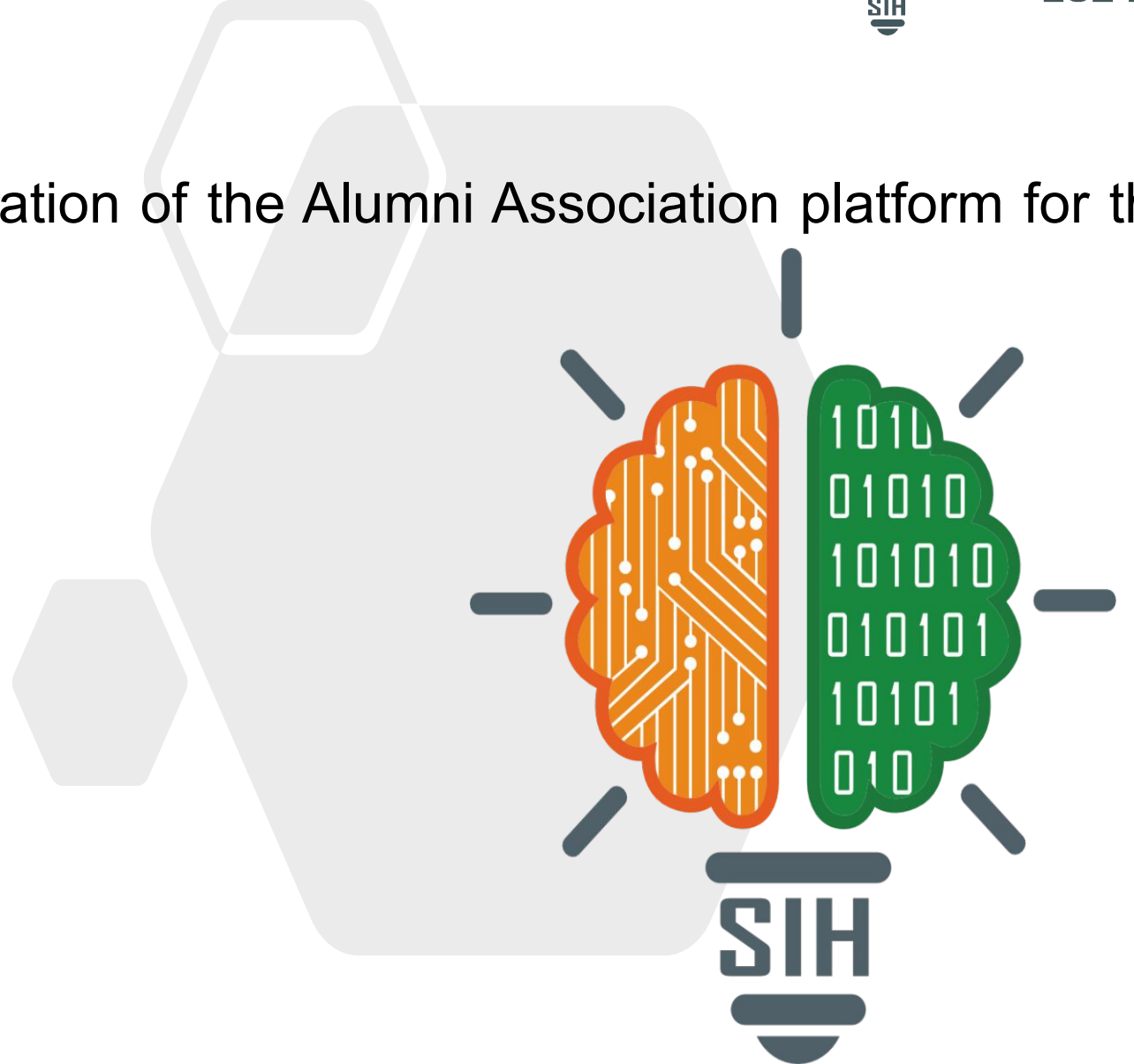


SMART INDIA HACKATHON 2024



- **Problem Statement ID** – 1609
- **Problem Statement Title**- Implementation of the Alumni Association platform for the University/Institute.
- **Theme**- Smart Education
- **PS Category**- Software
- **Team ID**- 630
- **Team Name**- Orbit Tech



Explanation- The project involves developing a comprehensive Alumni Association platform for the Government Engineering College, available on both **web** and **mobile applications**. The platform will facilitate **alumni registration, networking, donations, job postings, and event management**. Additionally, it will feature advanced functionalities like **AI-driven career services, a start-up incubator**. The goal is to enhance **alumni engagement, foster professional connections, and support college initiatives** through an innovative and user-friendly platform.

How it addresses the problem-

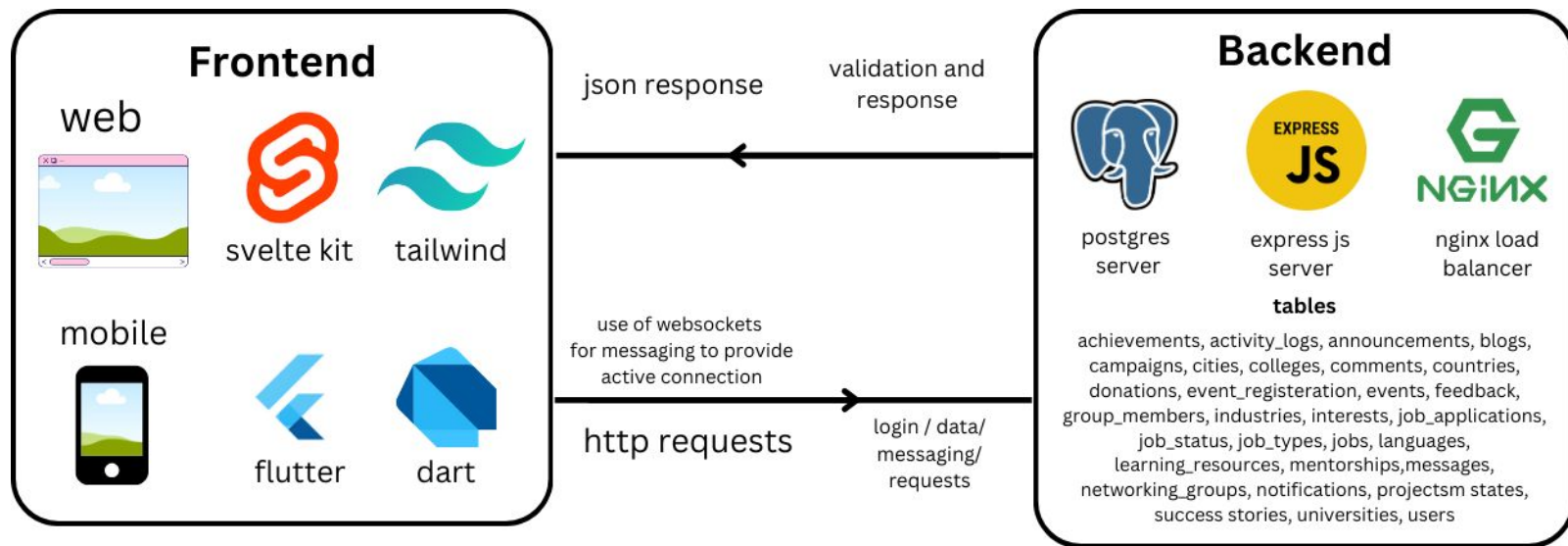
1. Boosting Alumni engagement.
2. Facilitating donations
3. Enhancing career support.
4. Promoting achievements.
5. Building community.

Innovation and uniqueness of solution-

1. AI Powered personalization.
2. Alumni start up incubator.
3. Real time collaboration tools.
4. Integrated mentorship.
5. Career Advancement.



TECHNICAL APPROACH

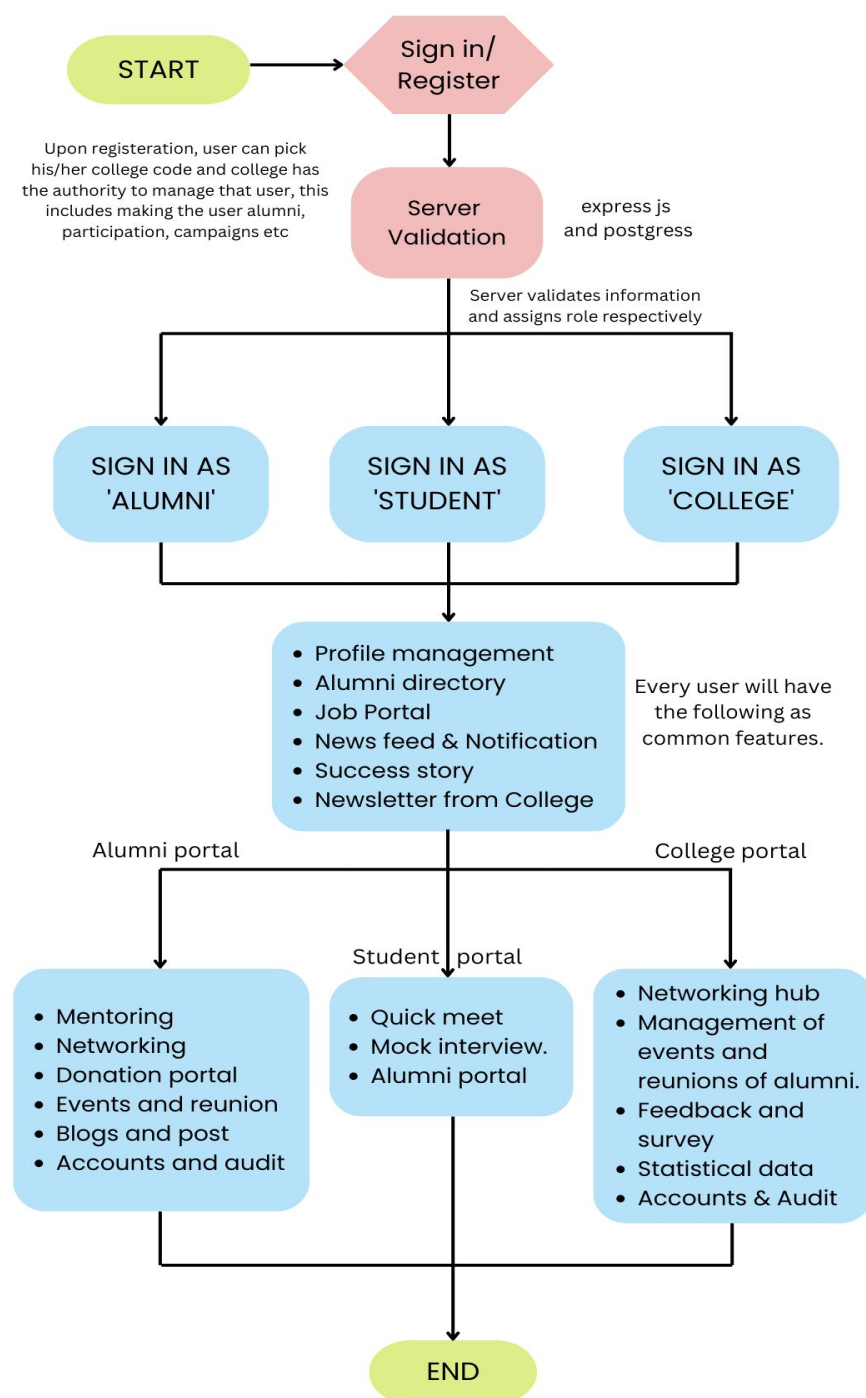


Client Side (Frontend)

- **Web App :** Svelte Kit Framework , Tailwind CSS classes , Axios library.
- **Mobile App :** Flutter Framework http, file picker, packages

Server Side (Backend)

- **Express JS :** For managing all the backend related task, with express validators, JWT and RESTful API.
- **PostgreSQL :** For storing, managing information and handling the database.
- **NGINX :** For load balancing so as to distribute incoming traffic across multiple server instances.



Analysis of the feasibility of idea

1. Technological feasibility:

- Technology Stack
- Scalability-It can be designed to scale as the alumni base grows, with cloud hosting options.
- Security- Data encryption, secure payment gateways.
- Integration- The system can integrate with existing college databases for job listings and payment processing.

5. User Adoption feasibility:

- User-friendly design
- Marketing and outreach
- Incentives for use

6. Time feasibility:

- Development timeline
- Phased Rollout

2. Operational feasibility:

- Maintenance
- User Support
- Content management- (Success stories, events)

3. Financial feasibility:

- Initial development cost
- Ongoing costs
- Revenue generation

4. Legal feasibility:

- Data privacy
- Payment processing compliance

Potential challenges and risks

1. Technical Complexity
2. User Adoption
3. Data Privacy
4. Maintenance Costs
5. Content Management
6. Security Risks
7. Timeline Delays
8. User Engagement
9. Financial Risks

Strategies for overcoming these challenges

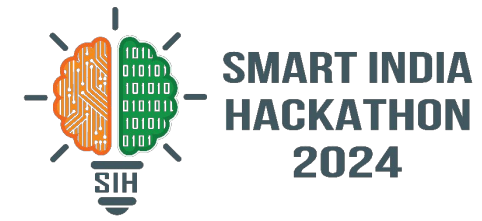
1. Modular development, thorough testing
2. Incentives, targeted outreach, intuitive design
3. Strong encryption, regular audits, compliance
4. Budget allocation, sponsorships, prioritize essentials
5. Dedicated team or automate content updates
6. Regular security checks, strong authentication
7. Realistic timelines, agile approach
8. New features, active promotion, feedback loop
9. Financial contingency, diverse funding
10. Plan upgrades, monitor industry trends

IMPACT AND BENEFITS

Impact and benefits to audience(Small,medium,big institutions)-

- **Strengthens connections** between alumni, students and the institution.
- Provides **job search** tools, **mentorship** opportunities, and **career** advices.
- Highlights notable **alumni achievements**
- Promotes **lifelong relationship** among alumni and institutions.
- Offers a platform for student entrepreneurs to **find resources** and **investors**.
- **Regular updates** and **feedback integration** ensure the platform **evolves** with user needs.
- Increased **philanthropic contributions**.
- Facilitates meaningful professional and personal **connections**.
- Offers a **modern, engaging user experience**.

RESEARCH AND REFERENCES



Papers:

- [SciELO - Brazil - PROPOSITION OF AN ALUMNI PORTAL BASED ON BENCHMARKING AND INNOVATIVE PROCESS PROPOSITION OF AN ALUMNI PORTAL BASED ON BENCHMARKING AND INNOVATIVE PROCESS](#)
- [\(PDF\) Bridging the Gap Between Universities and Alumni: A User-Centered Evaluation of a Digital Alumni Engagement Platform \(researchgate.net\)](#)

Market Research about other applications:

- Vaave: [Vaave - Alumni Engagement Programs for Educational Institutions](#) (Reviews mentioned the lack of customisation & automated tools)
- Almashines: [For Colleges & Universities - AlmaShines](#) (Users mentioned the lack of social media integration and ease of uploading)

Other sources:

- [ChatGPT | OpenAI](#)
- [Google Scholar](#)
- [ResearchGate | Find and share research](#)
- [Best Alumni Management Software 2024 - Reviews on 60+ Tools | GetApp](#)