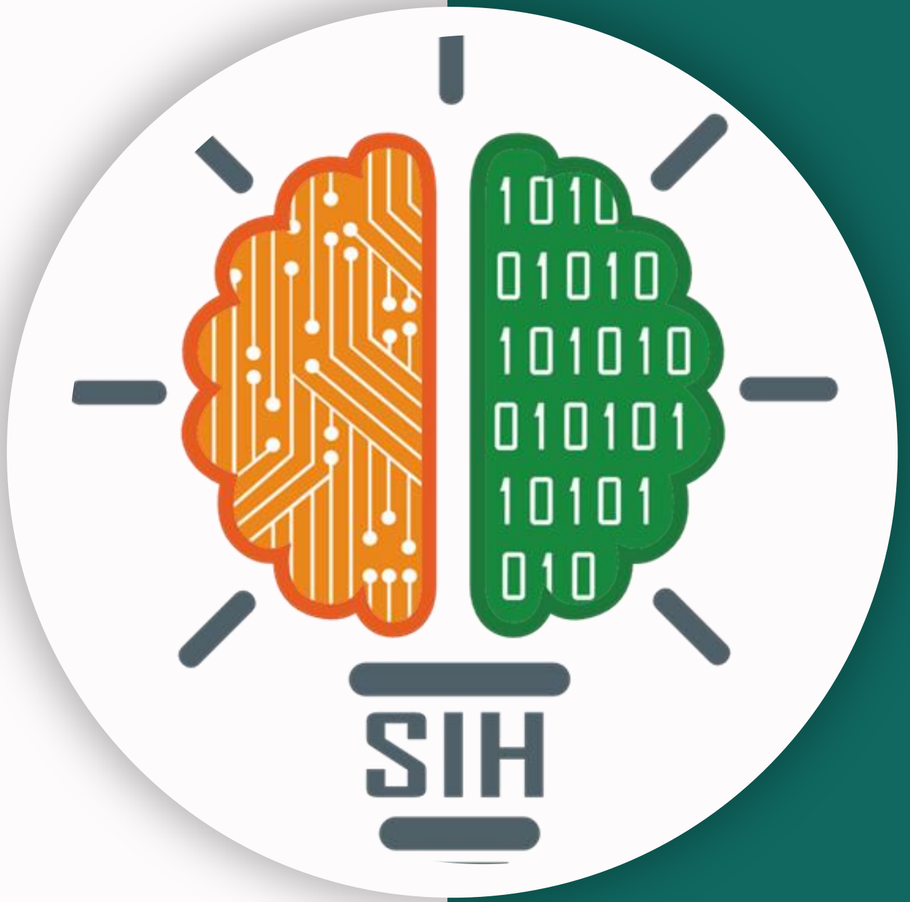
SMART INDIA HACKATHON 2024

Smart India Hackathon 2024



- **Problem Statement ID** –1633
- **Problem Statement Title**-Intelligent Platform to Interconnect Alumni and Students for Technical Education Department, Govt. of Rajasthan
- **Theme**-Education and Skills Development
- **PS Category- Software/Hardware**- Software
- Team ID-
- **Team Name** (Registered on portal)- Toman Manji

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IDEA/SOLUTION

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- **Centralized Alumni Database:** Comprehensive and up-to-date alumni records.
- **Structured Interaction:** Forums, webinars, and mentorship programs.
- **AI-Driven Matching:** Suggestions for student-alumni connections based on interests and career paths.
- **Security Features:** Blockchain for fraud prevention, AI for content filtering

Unique Value Propositions (UVP) :

1. **Dynamic prompt Stamp** for every Authentication
2. Authenication done in **less than a second**
3. Functions with full efficiency even **without Internet**
4. **Quad Level** Custom **Encryption** Algorithm
5. Distinct API's enhance **Security standards**

Problem Resolution :

The intelligent alumni-student engagement platform creates a dynamic and secure environment for interaction, leveraging cutting-edge technologies. By implementing a centralized system and AI-driven matching, the platform strengthens connections between alumni and students, fostering a robust network that enhances learning and career development. The platform's use of blockchain ensures that all interactions are secure and authentic, effectively addressing the challenges of fake profiles and inappropriate content. This innovative solution redefines the standards of alumni engagement and mentorship, providing an unmatched experience that is both user-friendly and reliable.

Technical Approach

Platform Development:

- Frontend: React.js for a dynamic and responsive user interface.
- Backend: Node.js and Express for server-side logic.
- Database: MySQL for storing alumni and student data securely.

- Advanced Technologies:
  - AI and NLP: For personalized recommendations and content filtering.
  - Blockchain: Ensures secure and verified user profiles.
  - Chatbots: AI-driven chatbots to assist users and provide quick answers.

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Feasibility and Viability

- Feasibility Analysis:
- Technical: Use of mature technologies like AI, ML, Blockchain, and NLP.
- Financial: Cost-effective open-source tools and technologies.
- Market: Growing need for alumni engagement platforms.
- Operational: Existing expertise and development frameworks available.
- Challenges and Mitigation Strategies:
- Technical: Ensure platform scalability and performance.
- Financial: Secure sponsorships and partnerships for funding.
- Market: Conduct surveys to align with user needs.
- Operational: Regular updates and user feedback loops.

Impact and Benefits

Positive Impact:

- Social: Stronger alumni-student relationships and community building.
- Economic: Increased donations and funding opportunities.
- Educational: Enhanced career guidance and mentorship opportunities.

Benefits

- Social: Empower students through real-world insights and experiences.
- Economic: Open new avenues for funding and donations.
- Environmental: Digital-first approach reduces paper-based communication.

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REFERENCE

References:

- Technologies Used: Research papers and articles on AI, Blockchain, and NLP.
- Similar Platforms: Studies on successful alumni-student platforms.
- Market Analysis: Reports on the demand for alumni engagement tools.