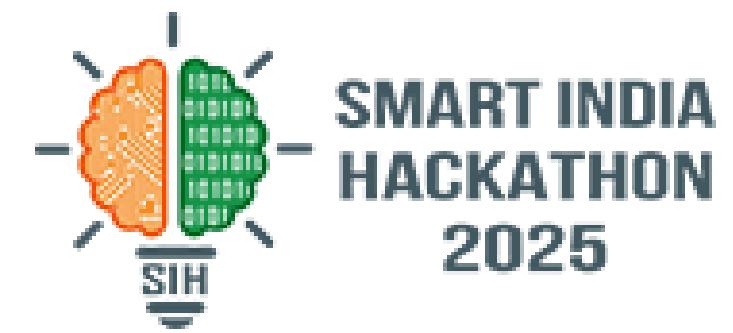


SMART INDIA HACKATHON 2025



- **Problem Statement ID – SIH25094**
- **Problem Statement Title - One-Stop Personalized Career & Education Advisor.**
- **Theme - Smart Education**
- **PS Category - Software**
- **Team ID - 53303**
- **Team Name- Eagle Eyezz**

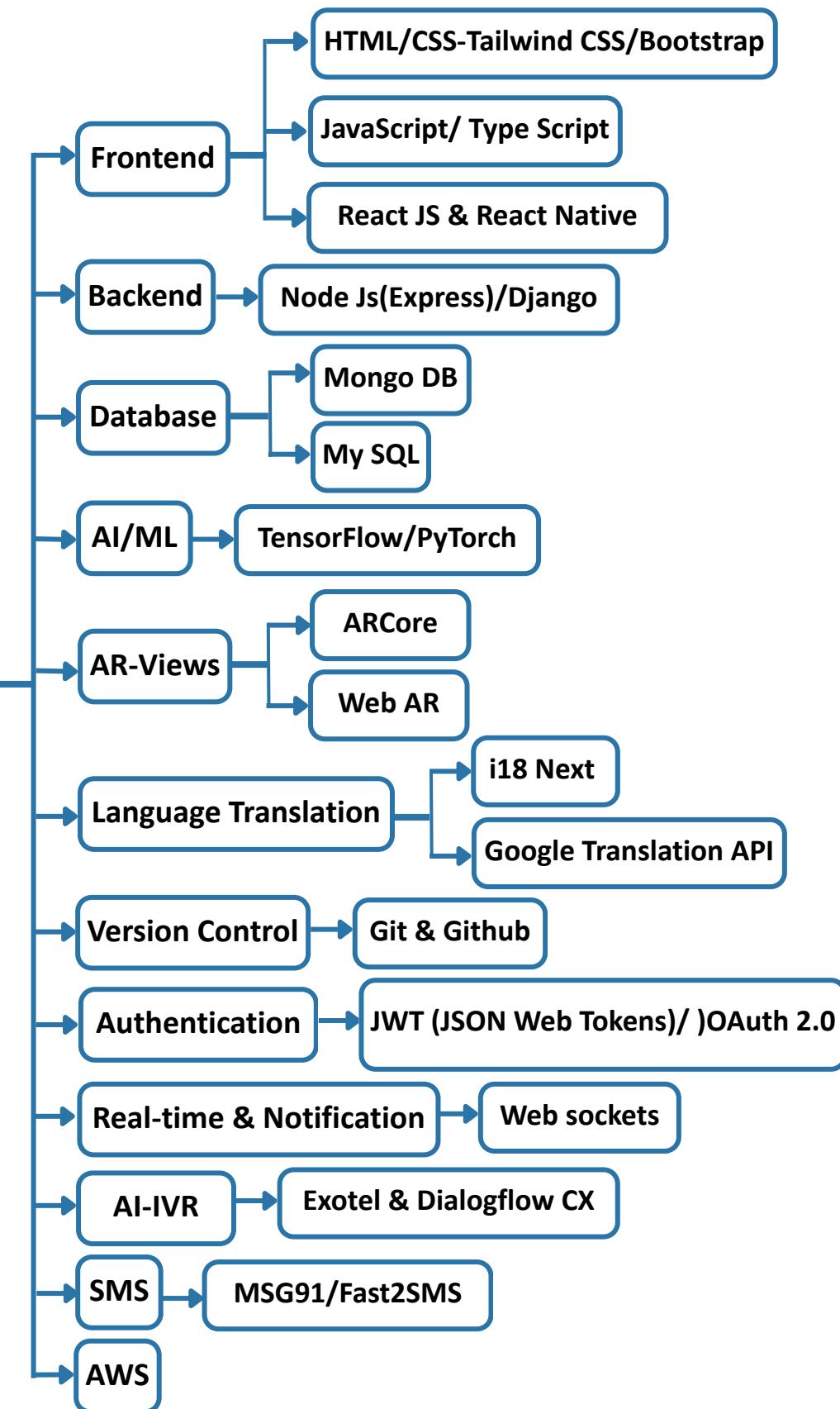
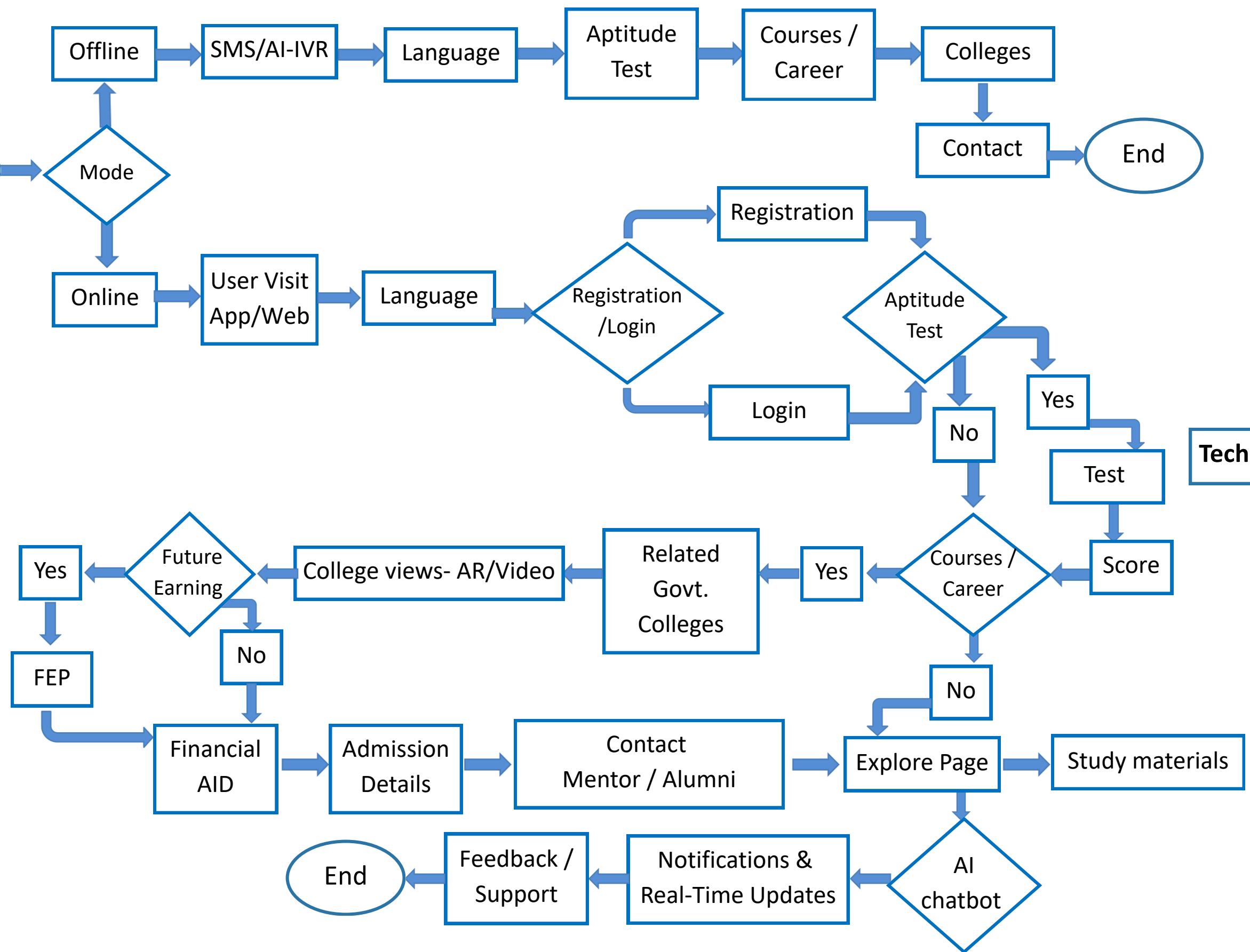
One-Stop Personalized Career & Education Advisor

The proposed solution involves creating a **multilingual, easy-to-use** digital platform both as a **mobile app** and **web portal** for personalized **career & education guidance**.

- **AI-driven aptitude & gamified quizzes** to assess interests and suggest best-fit streams.
- **Step-by-step course-to-career paths** for future planning.
- **Location-based govt. college directory** with courses, eligibility, cut-offs, facilities(hostel, labs, library), Jobs, Career.
- **AR-view of labs & campus** to showcase facilities.
- **Local caching and Auto-sync** ensures career guidance, **even in low-connectivity areas**.
- **Scholarship & Future Earning Potential** to compare costs and career growth.
- **Alumni connect, mentorship, and AI-chatbot** for instant help, and career advice.
- **AI-driven recommended learning paths** based on market demand & academic interests to help students build a secure future.
- **Offline support via SMS and AI-IVR** for areas with no internet.
- **Feedback collection** from user to improve platform continuously.
- **Interactive timeline with real-time notifications and newsletters** for key opportunities-helping students stay connected and on track.

Unique Value Propositions (UVP):

- **Comprehensive, Multilingual & user-friendly Platform.**
- **Mobile-First, Cross-Platform Accessibility with Offline Functionality.**
- **AI-Powered Career Simulator to preview 5-10 year outcomes.**
- **Parent Mode with simplified regional language guidance.**
- **Alumni & Mentor Connect for counselling.**
- **Real-Time Notifications for admissions, scholarships & exams.**
- **Caching and Auto-sync, for low-connectivity areas.**
- **SMS/AI-IVR(AI-powered Interactive Voice Response) for no internet area.**
- **Integration of AI Chatbot for 24/7 Instant Q&A and Guidance.**
- **Financial Aid & FEP (Future Earning Potential) Calculator to help families decide based on affordability.**



- **Potential Challenges:**
- **Data Accuracy & Freshness:** College/course details may become outdated quickly.
- **Network Connectivity Gaps:** Rural students may face limited or no internet access.
- **Adoption Barriers:** Parents and students may hesitate to trust digital career advice platforms.
- **Data Privacy & Security:** Student profiles need strong protection, especially in offline/low-security devices.
- **Keeping offline data fresh:** Frequent updates make **offline access challenging**, requiring real-time sync.
- **Gathering and updating:** AR campus views, videos and alumni details for each college is difficult.
- **Data Storage Limitations:** Devices, especially low-end smartphones may have limited storage capacity for offline content.

- **Overcoming Challenges:**
- **API Integration:** Auto-sync with Govt. APIs (NSP, NCS, API Setu, AISHE) for updated data.
- **Offline & SMS/IVR Support:** Allow core features without continuous internet.
- **Mentor Collaboration:** Alumni & Mentor connect.
- **Strong Security Layer:** End-to-end encryption, device-level authentication(biometric auth), and cloud backup.
- **Auto-sync:** Data **updates automatically via APIs** when internet is restored, making offline access practical and reliable.
- **Admin Dashboard:** A dedicated Admin Dashboard enables colleges to upload AR views, videos, alumni, and admission info directly.
- **Selective Download:** Allow users to download only essential content. Use compression techniques to minimize file sizes.

- **IMPACTS:**

- **Improved Reach:** Provides career and education guidance to students in **rural and remote** areas, ensuring wider access to information and opportunities.
- **Enhanced Inclusivity:** Supports underserved and marginalized communities by offering **equal access** to career counselling and government college information.
- **Increased Awareness:** Improves **understanding of subject streams**, degree benefits, career opportunities, and **available scholarships**.
- **Interactive Learning:** Engages students with tools like **aptitude quizzes, career maps**, and simulations to help them explore and plan effectively.
- **Emotional Support:** Boosts students' confidence and **reduces anxiety** by providing **trusted advice**, alumni experiences, and mentorship.
- **Practical Career Planning:** Provides **step-by-step pathways** linking education, skill development, jobs, exams and **higher studies** for informed decision-making.

- **BENEFITS:**

- **Informed Decisions:** Helps students choose the right courses and career paths with **personalized, easy-to-understand guidance**.
- **Reduced Dropouts:** Offers clear career paths to help **lower dropout rates** after Class 10 & 12.
- **Trust in Government Colleges:** Builds confidence by showing about courses, facilities, and career prospects in nearby Govt. institutions.
- **Skill Development & Employability:** Offers simulations, learning resources, and exam prep to help students gain skills and **become job-ready**.
- **Accessible Everywhere:** Works online, offline, ensuring even students in rural and low-internet connectivity areas can benefit.
- **Job Creation:** Opens new roles for counsellors, mentors and content creators while helping students.
- **Promotes Affordable Education:** Helps families **compare costs and ROI** to make more cost-effective education choices.

- **RESEARCH:**

- **AISHE (Govt. Portal)**: Official data on higher education and colleges across India.

Link: <https://aishe.gov.in/>

- **Sudha Bhogle Paper (Jiva Career)**: Explains challenges in career counselling like lack of counsellors and weak infrastructure.

Link: <https://jivacareer.org/wp-content/uploads/2023/01/5-Sudha-Bhogle.pdf>

- **ASER 2022 – The Hindu**: Shows low parental education in rural India, leading to poor career awareness.

Link: <https://www.thehindu.com/news/national/aser-2022-337-of-mothers-208-of-fathers-in-rural-india-do-not-have-any-schooling/article66407914.ece>

- **REFERENCES:**

- **iDreamCareer**: Career guidance platform offering counselling, scholarships, and college information.

Link: <https://idreamcareer.com/>

- **Ultimate Guide for AR (Kivisense)**: Modern AR guide + practical use cases

Link: <https://tryon.kivisense.com/blog/ultimate-guide-for-webar/>

- **Dialogflow CX (Google)**

A conversational AI platform for speech-to-text, intent detection, and text-to-speech. We use it to power the AI agent that understands student queries and responds in voice.

Link: <https://cloud.google.com/dialogflow/docs>