

TITLE PAGE

- Problem Statement ID – 25094
- Problem Statement Title -
One-Stop Personalized Career & Education Advisor
- Theme - Smart Education
- PS Category- Software
- Team ID - 58034
- Team Name (Registered on portal): The Pathmakers



Proposed Solution :

Mobile/web app that acts as a **personalized career counselor for students** choosing streams and government colleges after Class 10-12.

Key Features

- **Smart Assessments** - Personalised Stream and course recommendation.
- **Career Mapping**- Visual paths from 11th till graduation.
- **Local College Finder**- GPS based finder.
- **Timeline Alerts** - Time to time updates. related to admissions,entrances and scholarships.
- **Offline Access** - Useful for students in rural area's to help access.

Innovation and Uniqueness

- Government College Focus
- Rural-First Design
- Real-Time Data

How It Solves the Problem

- **Confusion** → AI narrows choices to personalized recommendations
- **Information Gap** → Brings quality career counseling to rural students

Frontend

- **Mobile:** Flutter
- **Web:** React.js
- **UI:** TailwindCSS

Backend

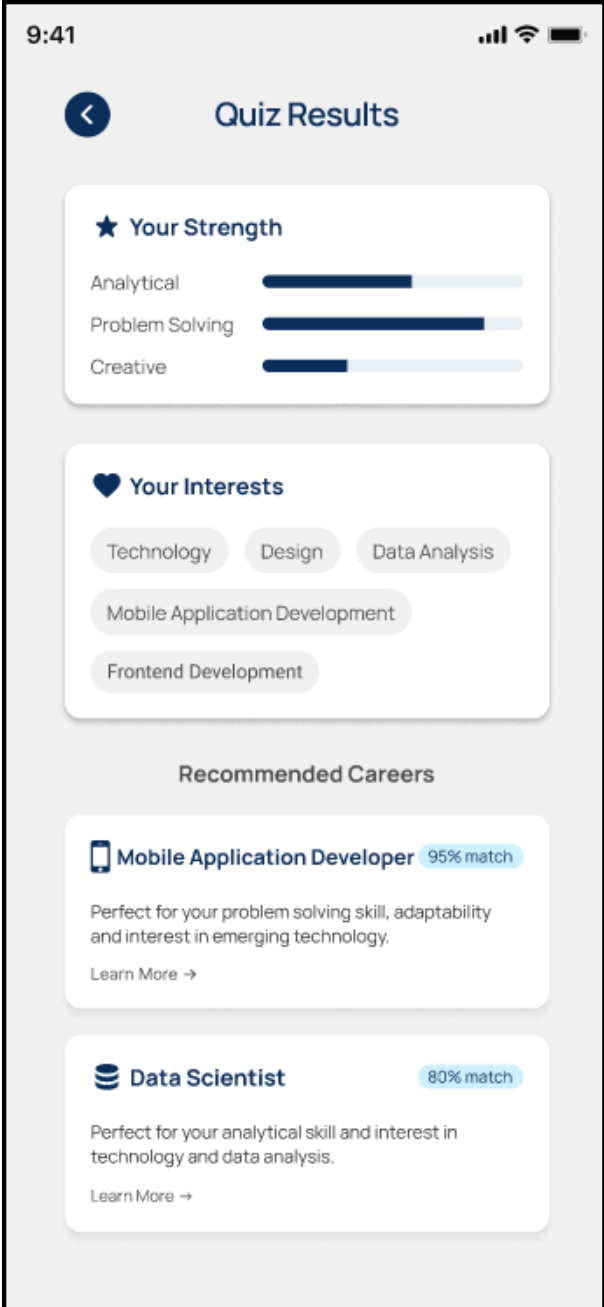
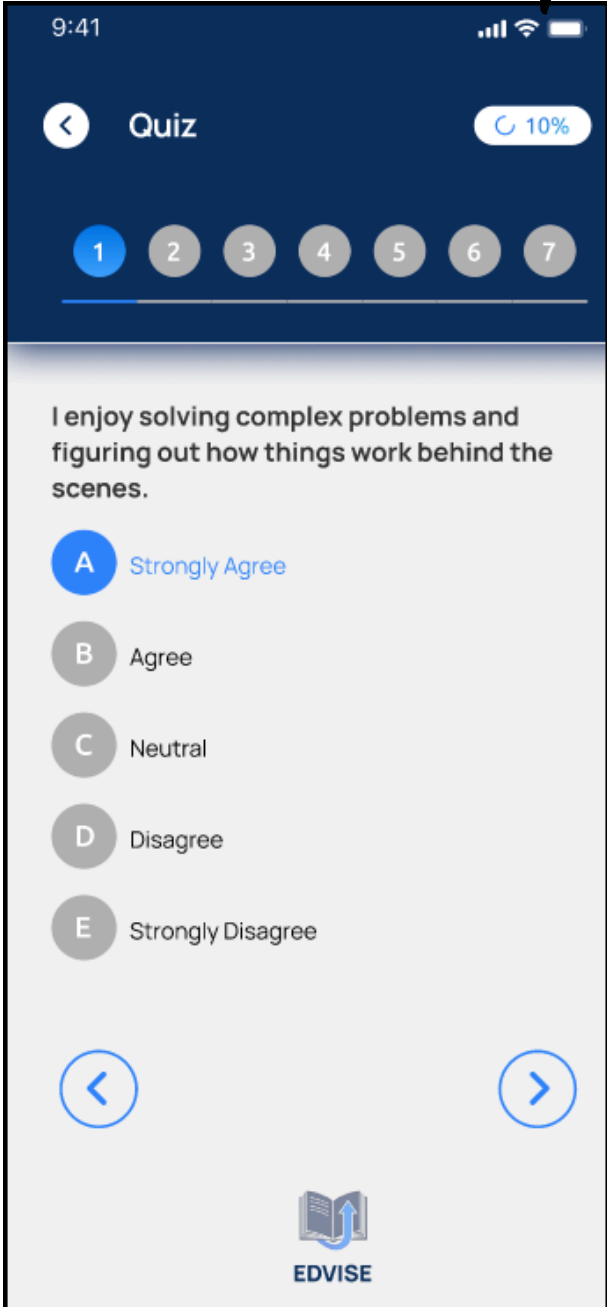
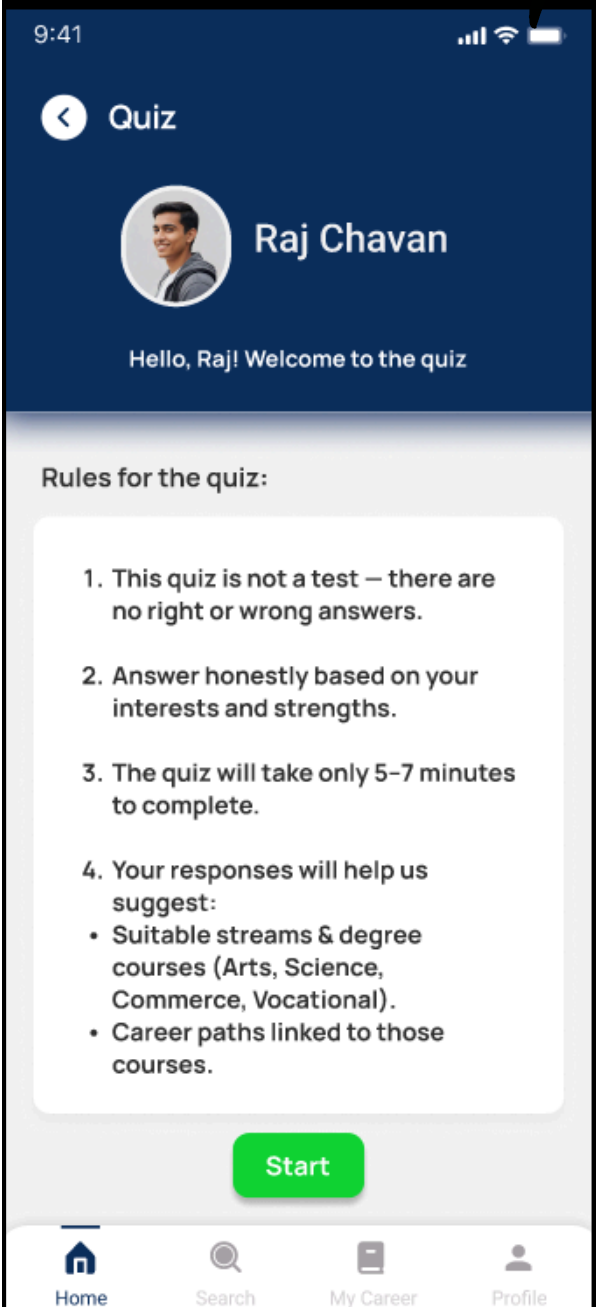
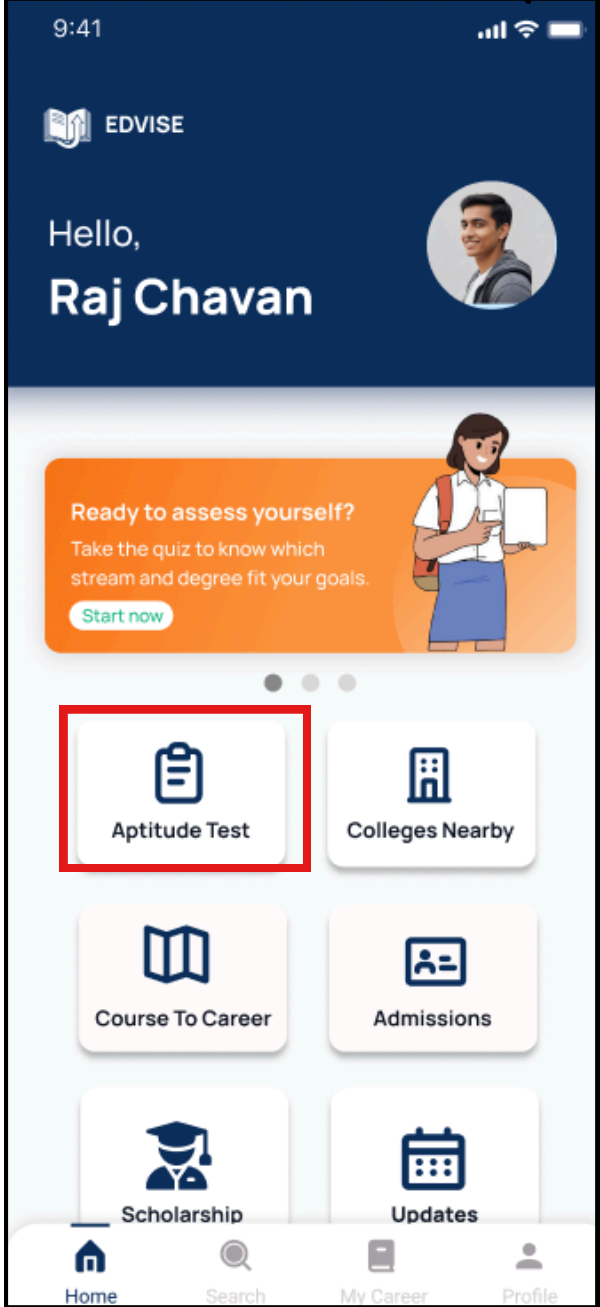
- **Server:** Python + FastAPI
- **Database:** MongoDB

AI/ML

- **Recommendation Engine:** Python with scikit-learn

Infrastructure

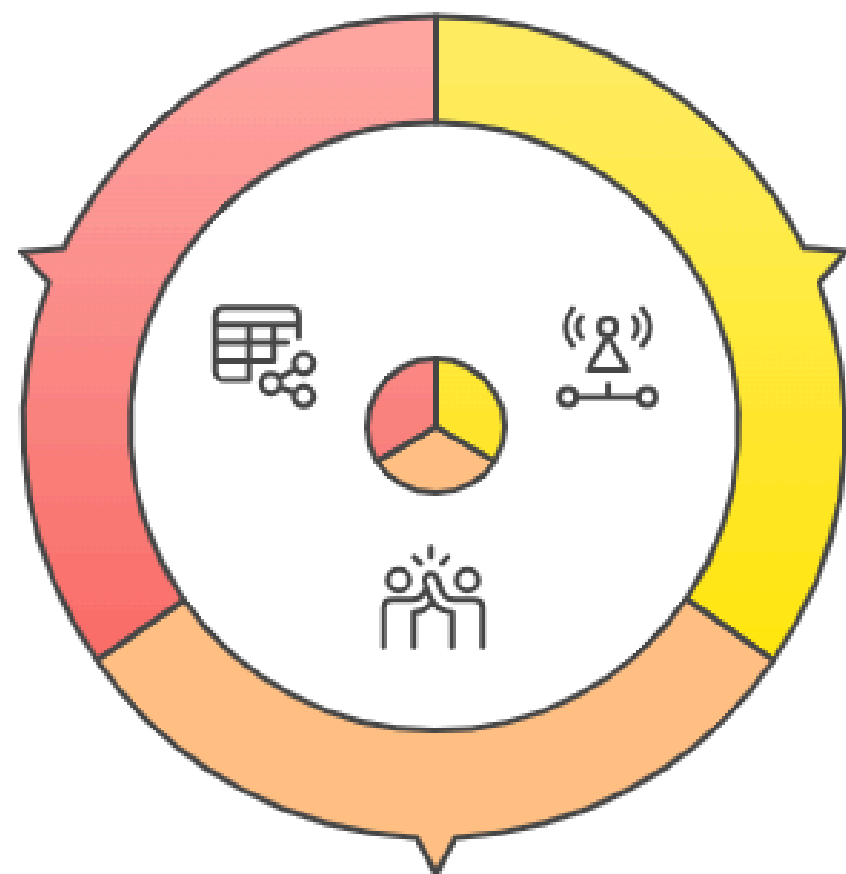
- **Cloud Platform:** AWS S3



Unique Selling Points

Data

Validation from multiple sources and community.



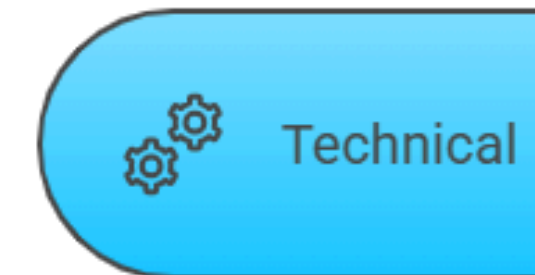
Connectivity

Offline functionality and SMS backup.

Adaption

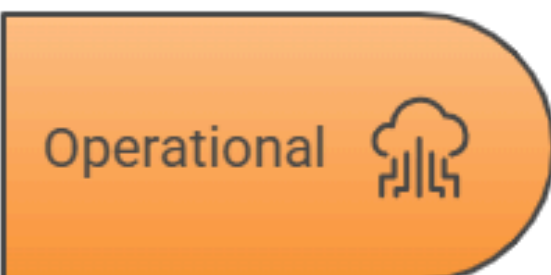
School partnerships and success stories.

Feasibility Analysis



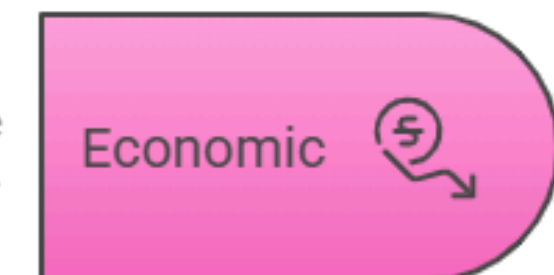
Cross platform mobile, offline PWA capability, open source, cloud based infrastructure.

Cloud based, minimal infrastructure, automated system reduces manual work.

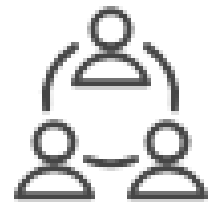


Easy to use platform will attract students market.

Open source infrastructure ensures reduced costs.



Benefits



Social

Focuses on education equity, youth empowerment, and digital inclusion



Economic

Aims for higher salaries, reduced dropouts, and workforce development



Environmental

Emphasizes reduced migration, digital-first approaches, and sustainable growth

Impacts

Empowered Students

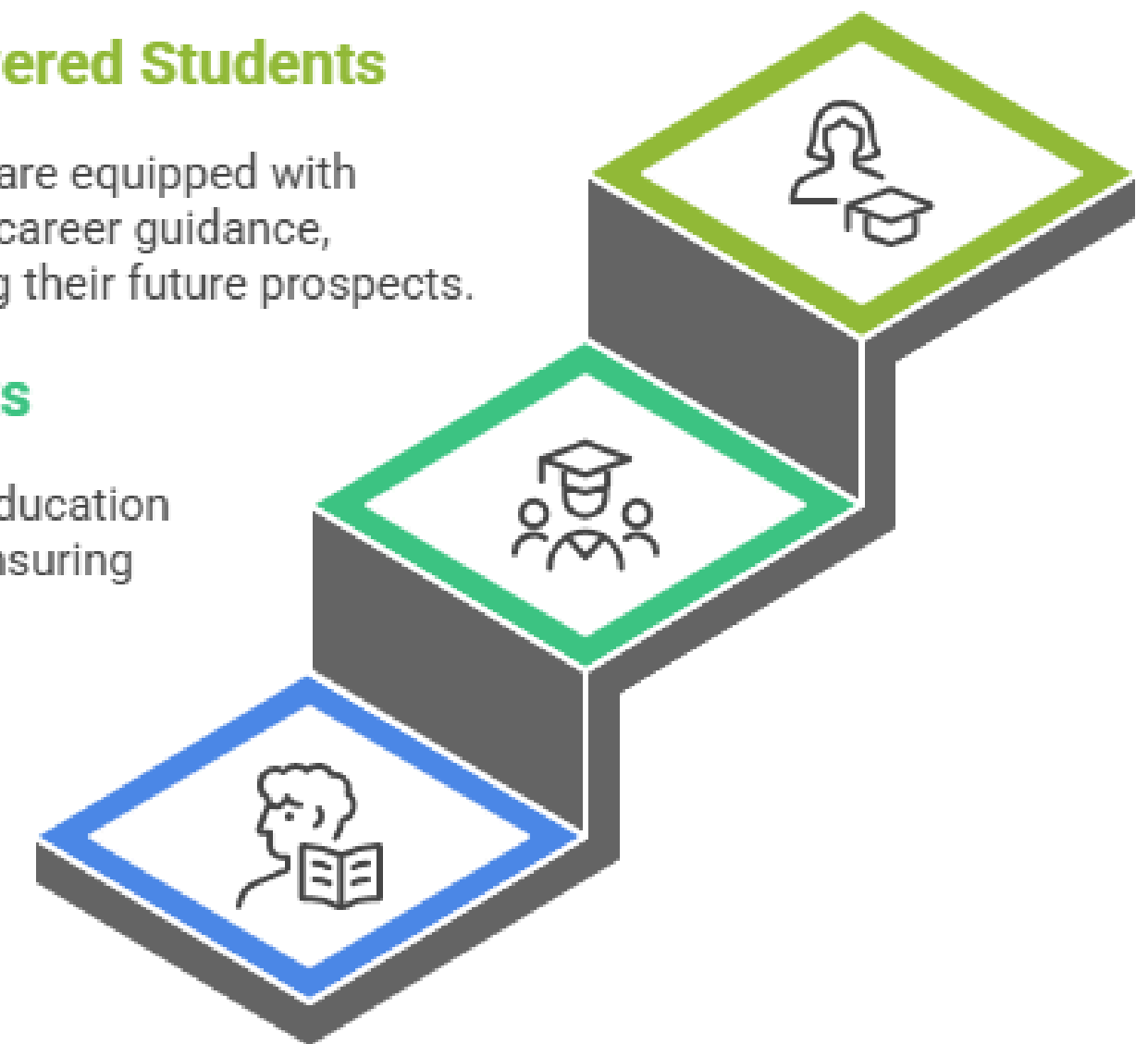
Students are equipped with localized career guidance, enhancing their future prospects.

Reduced Dropouts

Fewer students leave education after key milestones, ensuring continued learning.

Informed Decisions

Students gain access to reliable academic guidance to make informed choices.



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- **Government Data Sources**

1. **AISHE 2021-22 (Ministry of Education):** Official enrollment & dropout statistics
2. **UDISE+ 2021-22:** School dropout rate data (1.5% national average)

- **Primary Source**

1. **Dr. Manpreet Kaur Presentation:** YouTube - "Missing Career Roadmaps"

- **Academic Research**

1. **ResearchGate Studies** : Comparative study to assess the attitude of higher secondary school students regarding career counselling in selected rural and urban schools of Kashmir.
2. **Inside Higher Ed** : Survey Finds Community College Students Need Better Career Preparation.
3. **Global Career Counsellor (2025):** Career counseling crisis in Indian K-12 system.