AI for Bharat Hackathon

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Team Name : Team Margadarshak

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Problem Statement : AI for Communities, Access & Public Impact
Build AI-powered solutions that improve access to information, resources, or opportunities for communities, focusing on inclusivity, local languages, and real-world public impact.

Brief about the Idea:

This project proposes an AI-powered education and career guidance platform designed for students across Bharat.The system provides personalized academic pathways, exam eligibility guidance, career options, and learning support based on a student's qualification, interests, and goals.It leverages artificial intelligence and verified government education data to ensure accurate, inclusive, and accessible guidance for learners at every stage.The platform is designed to support multilingual access and scalable deployment for nationwide public impact.
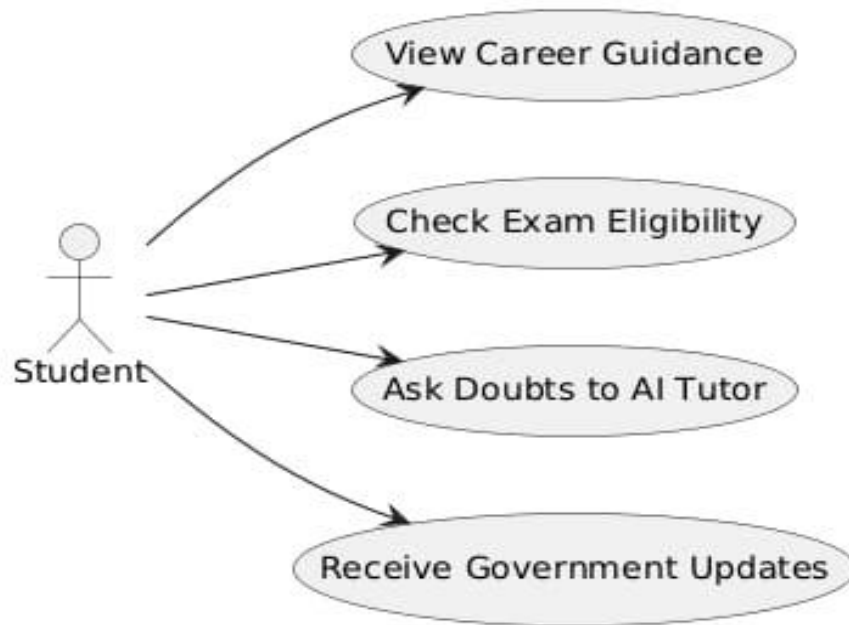
Problem We Are Solving

- Students across Bharat face significant confusion while making education and career decisions due to fragmented and unstructured information.

- After key milestones such as Class 10, Class 12, or graduation, students struggle to understand available pathways, eligibility for exams, and suitable career options.

- Most existing platforms lack personalization, Bharat-specific context, and accessibility in regional languages.

- This results in uninformed decisions, missed opportunities, and career misalignment.

Uniqueness of the Solution

- One unified platform for all student levels

- Personalized guidance based on qualification and interests

- Uses verified Bharat government education data

- Multilingual and inclusive design

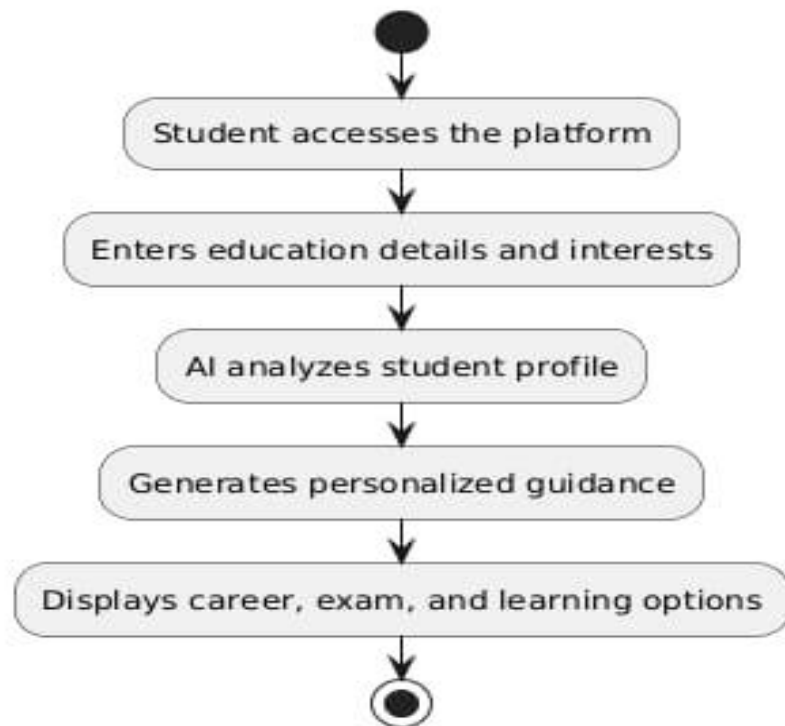- AI-powered recommendations and learning support

Key Features of the Proposed System

- Personalized student profiling using qualifications and interests
- Career and education pathway recommendations
- Exam eligibility and guidance system
- AI-powered tutor for subject-level doubts
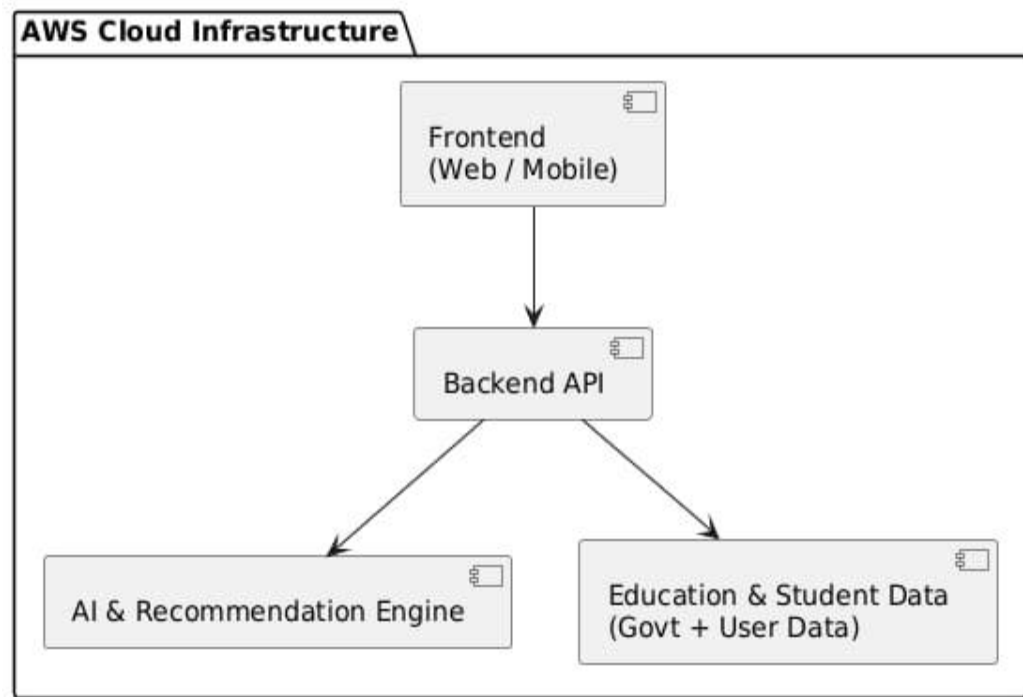- Government education updates filtered by student eligibility

Workflow of the Proposed System

1. Student accesses the platform

2. Student enters education details and interests

3. System creates a personalized student profile

4. AI analyzes student profile using education data

5. Personalized career, exam, and learning guidance is generated

Architecture diagram of the proposed solution:

- The proposed system follows a modular architecture consisting of a user interface, backend services, AI processing layer, and data sources.

- The solution is deployed on cloud infrastructure to ensure scalability, availability, and reliable access for students across Bharat.

Technologies to be used in the solution:

Frontend

- Web-based user interface for students

Backend

- API-based application services

AI / ML

- Recommendation and natural language processing models

Data

- Student data and government education datasets

Cloud

- AWS cloud infrastructure for scalability and availability

Estimated implementation cost (optional):

- The proposed solution will be implemented in phases, starting with a minimum viable product focusing on core guidance features

- .Open-source AI models and verified government education data will be used to reduce development cost.

- Cloud infrastructure enables scalable deployment and supports nationwide access.

- The system is feasible to implement within the hackathon scope and can be expanded further after validation.

Expected Impact & Conclusion

- The proposed solution aims to empower students across Bharat by providing clear, personalized, and accessible education and career guidance.

- By leveraging artificial intelligence and verified government education data, the platform helps students make informed academic and career decisions.

- The system supports inclusivity through multilingual access and addresses real-world challenges at scale.

- Overall, the solution aligns with the AI for Bharat vision by delivering meaningful public impact in education.

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Thank You