

Google Cloud

PRESENTS

Agentic AI Day

Build the next generation of intelligent agents

Powered by 

Team Details

a. **Team name:** *AGARAM*

b. **Team leader name:** *NEERAJA.P*

c. **Problem statement:** *Empowering teachers in multi-grade classrooms*



<https://github.com/JANE7J/sahayak-ai>

Brief about the idea

Sahayak is an AI-powered mobile teaching assistant tailored for low-resource, multi-grade rural classrooms in India. In environments where a single teacher manages multiple subjects and grades, Sahayak acts as an intelligent co-teacher — assisting with content creation , student assessment , emotional support , and career guidance — all in regional languages and with offline-first access .

Built using cutting-edge tools like Gemini, Vertex AI, and Firebase , Sahayak empowers teachers to:

- Generate culturally relevant stories, poems, lesson plans, and visual aids
- Upload textbook pages to auto-generate grade-specific worksheets
- Conduct voice-based reading assessments and image-based answer evaluations
- Track student progress and deliver AI-generated feedback.
- Provide real-time in-ear teaching guidance via WHISPER
- Evaluate handwritten assignments and offer feedback through ScanShaala
- Facilitate daily mood check-ins to monitor students' emotional health via Today Ka Mood
- Offer personalized career suggestions based on student interests

Sahayak prioritizes accessibility, localization , and intelligent automation , ensuring that even underserved schools can harness the power of AI — without relying on constant internet connectivity .

- **How different is it from any of the other existing ideas?**

Rural and government school teachers in India face severe challenges: overcrowded classrooms, multi-grade teaching, limited digital tools, and language barriers. Most existing EdTech solutions focus on content delivery, but ignore the real classroom complexities — like student evaluation, personalized support, Handling Low Student Teacher ratio and emotional well-being. Teachers struggle to track student progress, manage varied learning levels, and offer individual attention in such constrained environments.

- **How will it be able to solve the problem?**

Sahayak is an AI-powered teaching assistant built for offline use in multi-grade rural classrooms. It supports regional languages and helps teachers by generating lessons and worksheets, offering real-time audio guidance, and enabling voice/image-based assessments, Career Guidance.

Two key features stand out: SCANSHAALA auto-evaluates handwritten assignments and gives feedback to ease teacher workload, while TODAY KA MOOD tracks student emotions through daily check-ins and alerts teachers when support is needed. Together, they help manage both learning and well-being in low-resource settings.

- **USP of the proposed solution**

Sahayak complete classroom companion designed for the ground realities of India's underserved schools. What makes it unique is its offline-first, AI-integrated approach, with full support for regional language input and output. It offers real-time teaching aid through in-ear audio guidance, built-in emotional tracking via Today Ka Mood, and automated assignment evaluation through ScanShaala. Additional features like career guidance and behavioral analysis further strengthen its impact. Unlike mainstream EdTech platforms that focus mainly on content delivery, Sahayak empowers teachers to manage academics, evaluation, and emotional support — all from a single mobile device.

List of features offered by the solution

SCANSHAALA

Click photo of notebook → AI checks handwriting + flags unclear parts for review

Mood Tracker

Daily emoji or voice check-in → AI logs mood + alerts if sad/angry for 1 week

Career & Revision AI

Suggests careers using past data + gives spaced revision alerts

Offline + Whisper Mode

Works offline + gives in-ear AI tips to guide teacher in real time

Local Content AI

Teachers speak in regional language → AI creates culturally relevant stories/poems

Worksheet Maker

Upload textbook → AI generates class-wise worksheets using OCR + Gemini multimodal

Quiz & Game Generator

Create fun puzzles, quizzes, and MCQs — AI-assisted and engaging

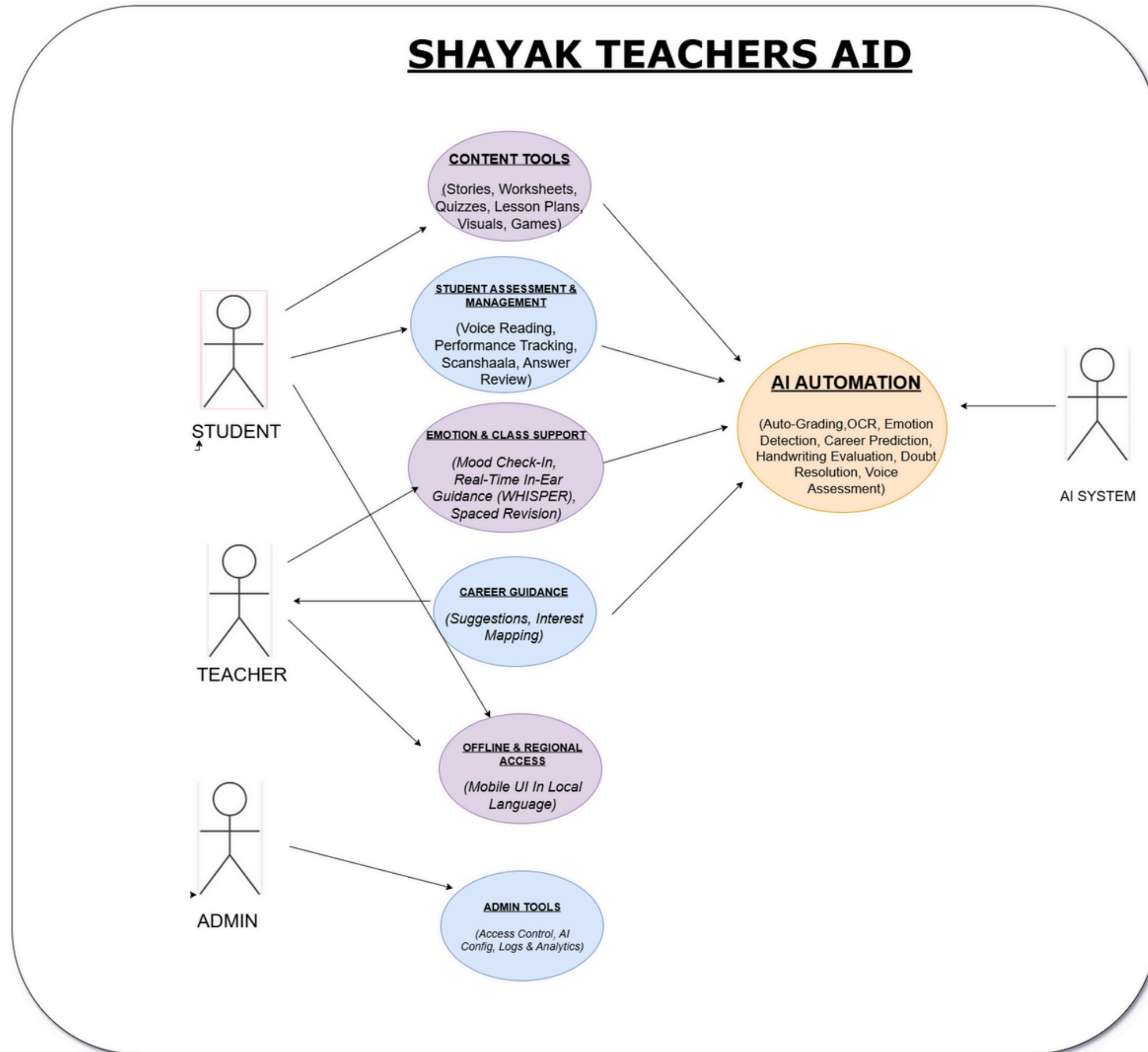
Voice Reading Checker

Students read aloud → AI evaluates pronunciation, fluency → saves CSV reports

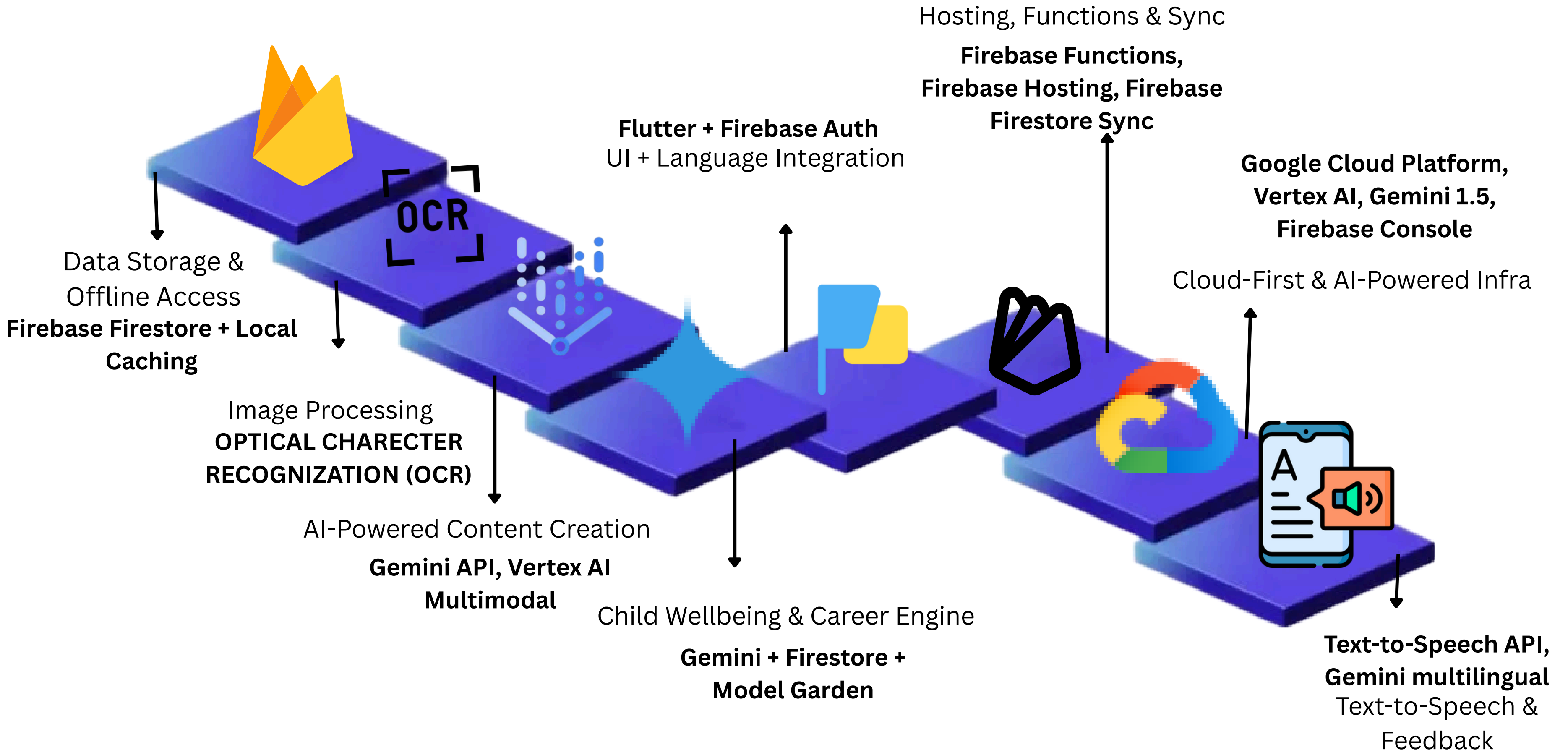


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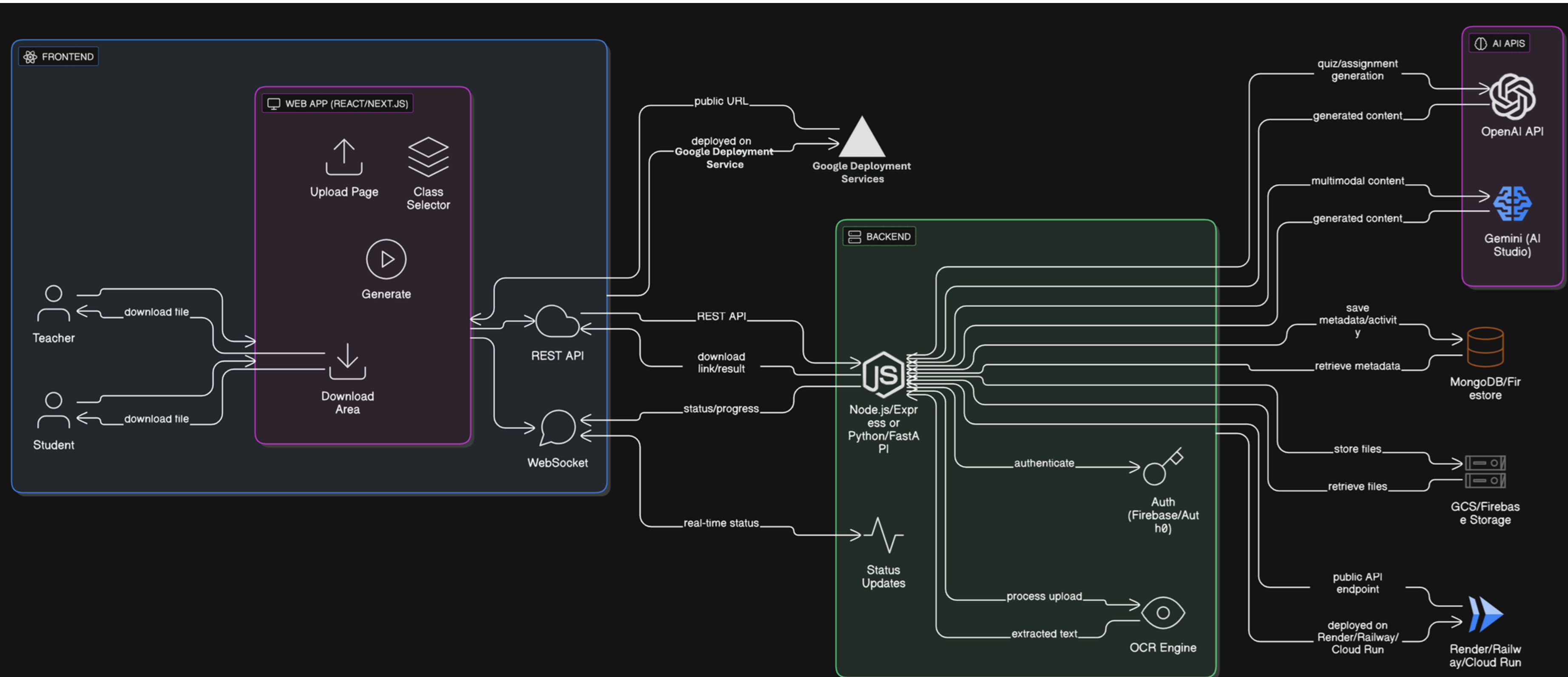
Process flow diagram or use-case diagram



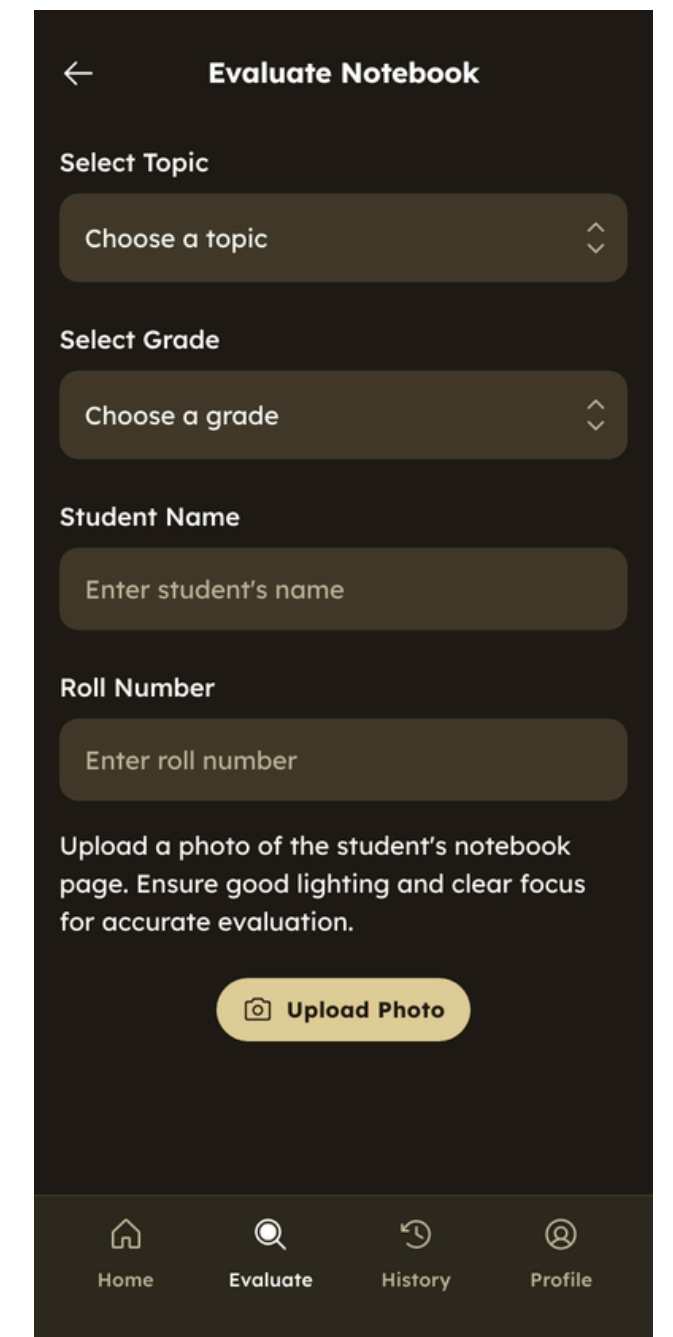
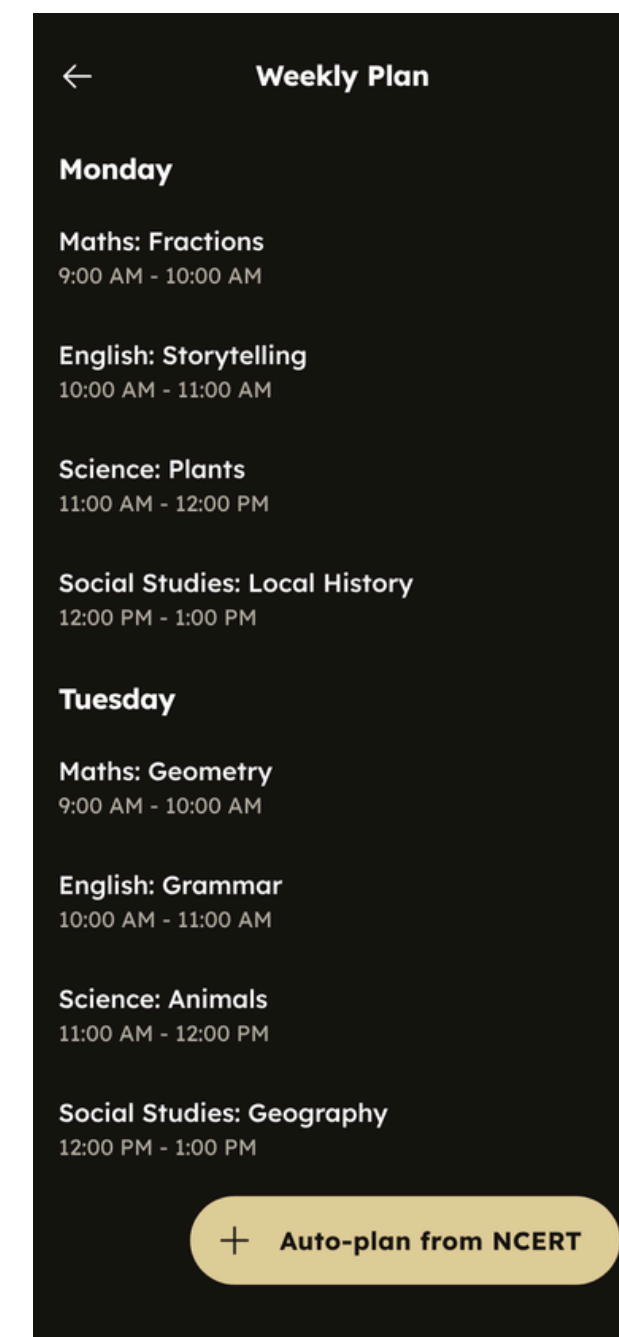
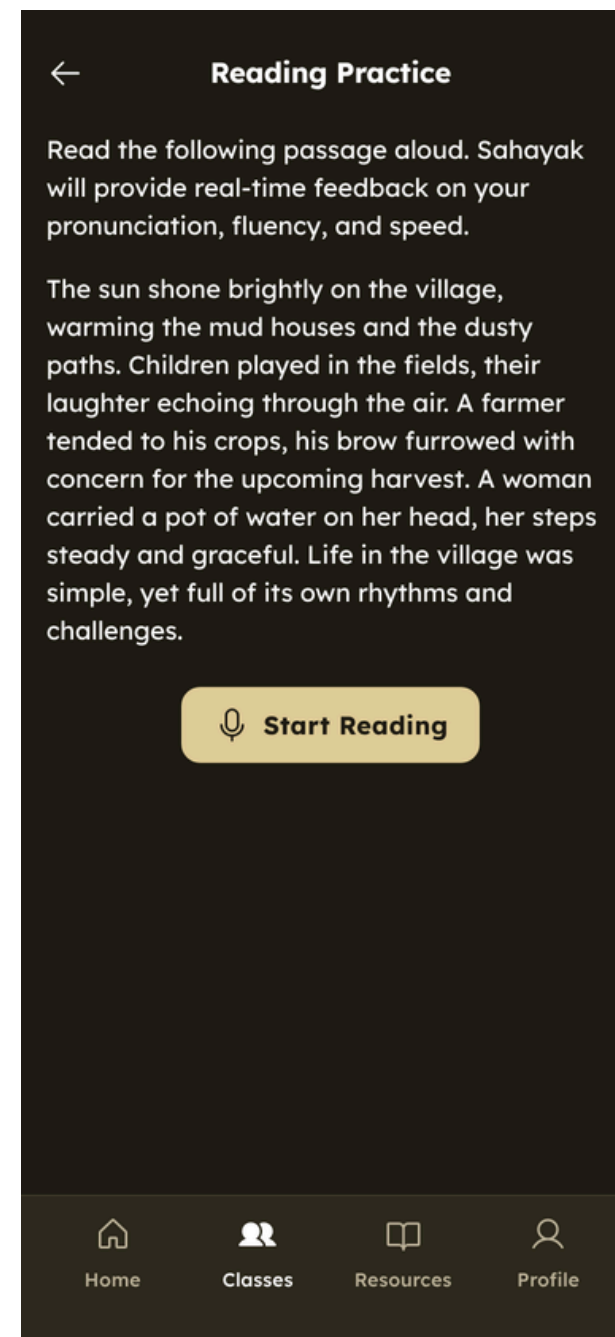
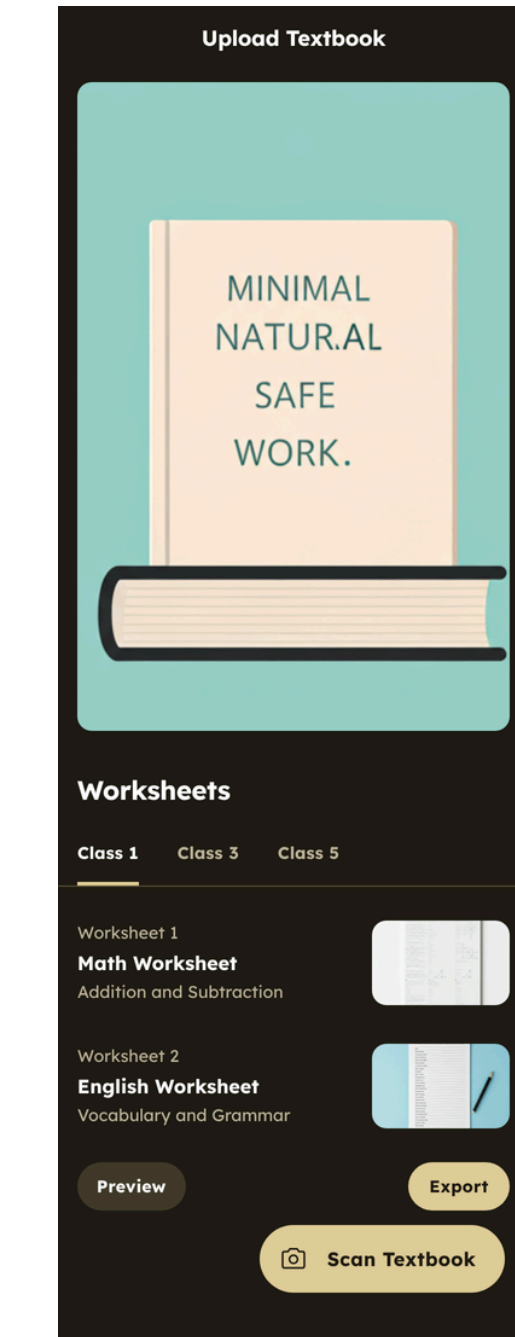
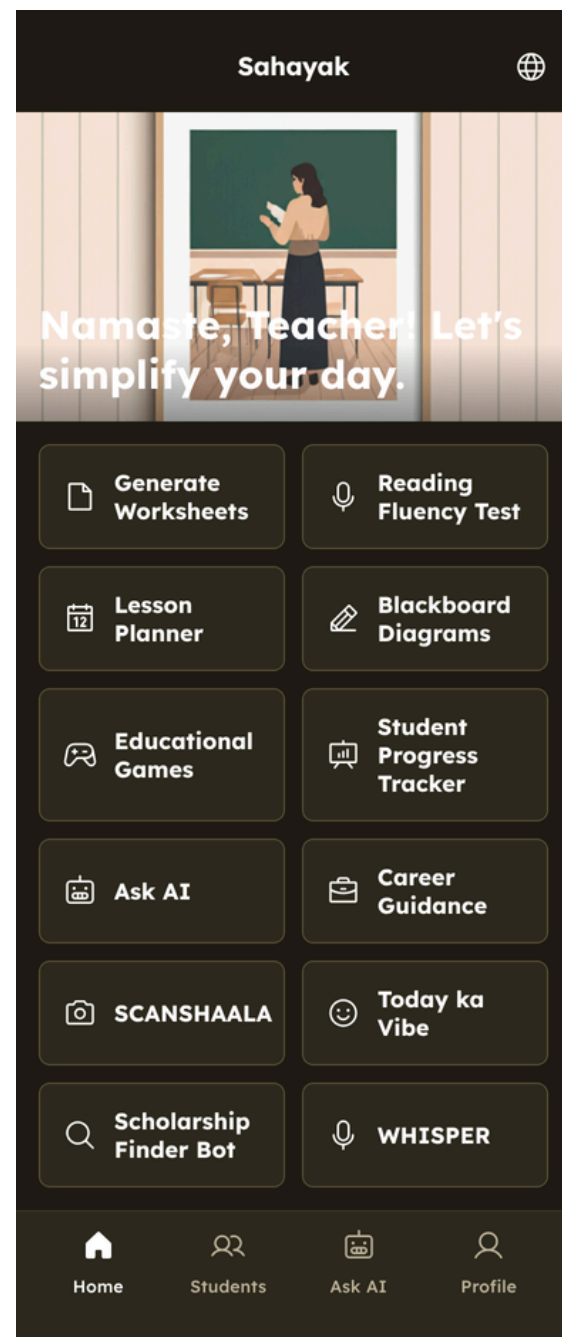
Technologies to be used in the solution



Architecture diagram of the proposed solution



Wireframes/Mock diagrams of the proposed solution (optional)



Home Screen

Worksheet
GeneratorReading
AssessmentLesson
Planner

Scanshaala

←

How are you feeling today?

Select an emoji that best describes your mood.

😊

😐

😞

😡

😭


Share more about your day (optional)

Submit

Today Ka Vibe

←

Student Profile



Priya Sharma
Class 8

Interests

Teacher Remarks

Academic Strengths

AI Suggestions

Based on Priya's interests, teacher remarks, and academic strengths, here are some potential career paths and educational options:

Teacher

Pursue a Bachelor's degree in Education or a related field.

Journalist

Consider a Bachelor's degree in Journalism or Communications.


Social Worker

Explore a Bachelor's degree in Social Work or Psychology.

Save

Career Guidance

Sahayak



Ask me anything

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Ask AI

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Sahayak

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LanguageEnglish

SchoolVidya Mandir

Logout→

Sync StatusSynced

Contact Support→

Home

Plan

Teach

Assess

Settings/Profile



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Thank you!

