

Welcome to



सुरक्षित  
पहचान

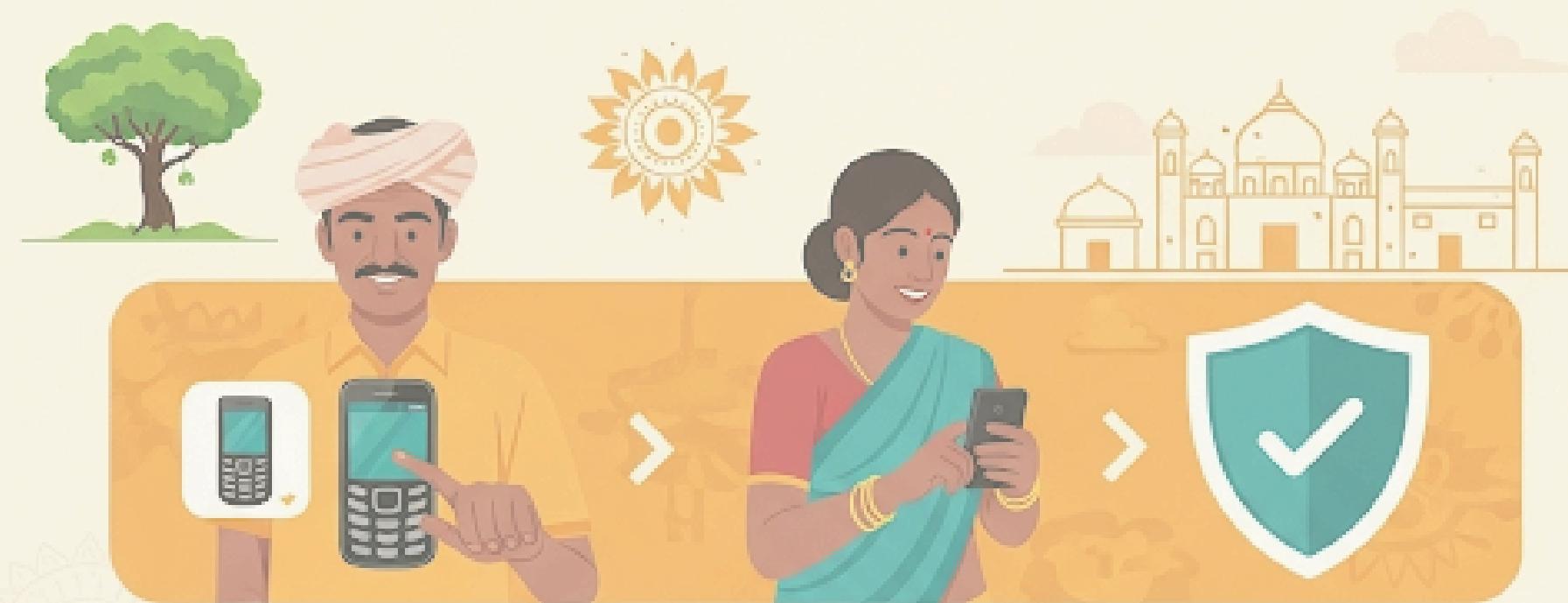
गाँव से शहर तक, अब KYC आसान

# *Problem Statement 1 : Design a Lightweight KYC App for Bharat*

- Low-end smartphones → limited storage, slow processors, small screens.
- Low digital literacy → first-time smartphone users, fear of fraud.
- Poor/unstable internet connectivity → common in rural & semi-urban areas.
- Trust deficit → people hesitate to share personal documents online.



# OBJECTIVE



Lightweight & Fast

Simple & User-Friendly

Works in Low Connectivity

Inclusive & Accessible

Secure & Trustworthy

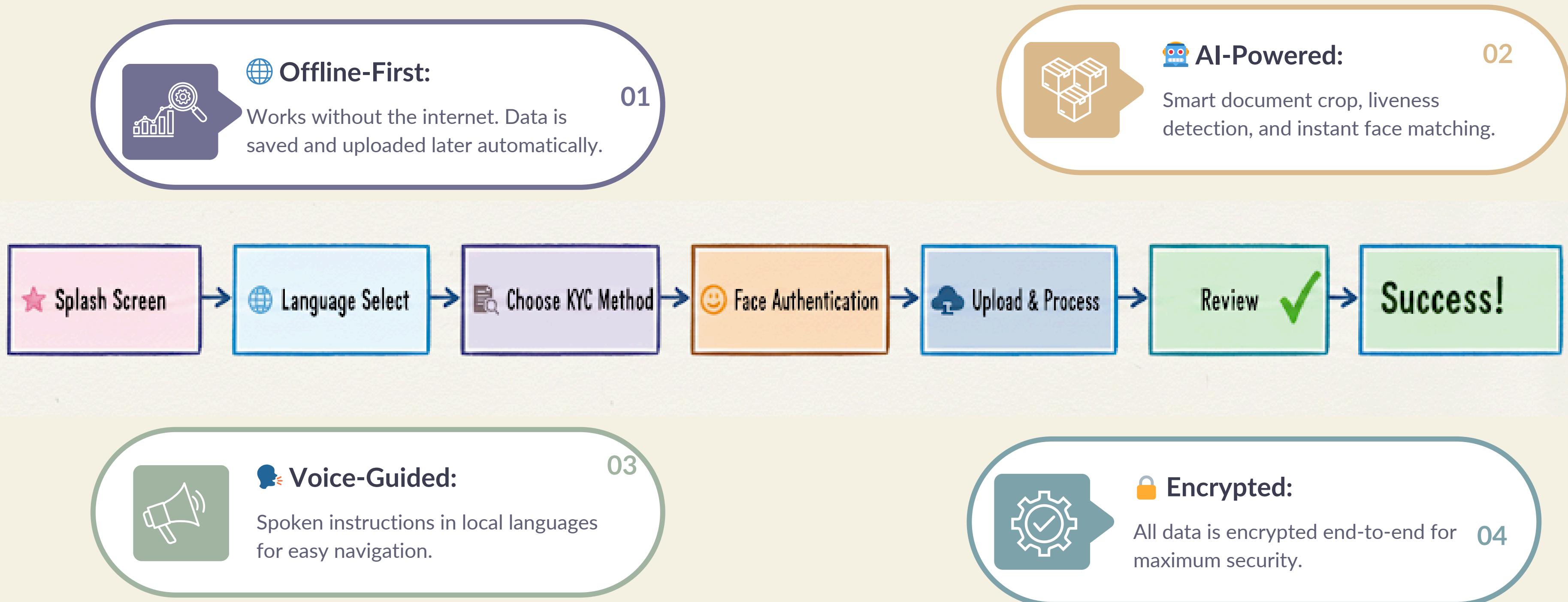


Simple Download  
& Setup

Easy Verification  
(Offline Supported)

Secure & Trustworthy  
Approval

# User Flow Chart



# Guidance & Fail Safes



AI सुझाव ★ ★ ★

आधार कार्ड सबसे तेज़ और आसान है

○ सरकारी मान्यता प्राप्त



भाषा चुनें

अपनी पसंदीदा भाषा



आपका नंबर सुरक्षित और गुप्त है 🔒

अगले कदम: →

- 1 बैंक खाता खोलें
- 2 सरकारी योजनाओं का लाभ उठाएं
- 3 डिजिटल पर्मेंट का उपयोग करें

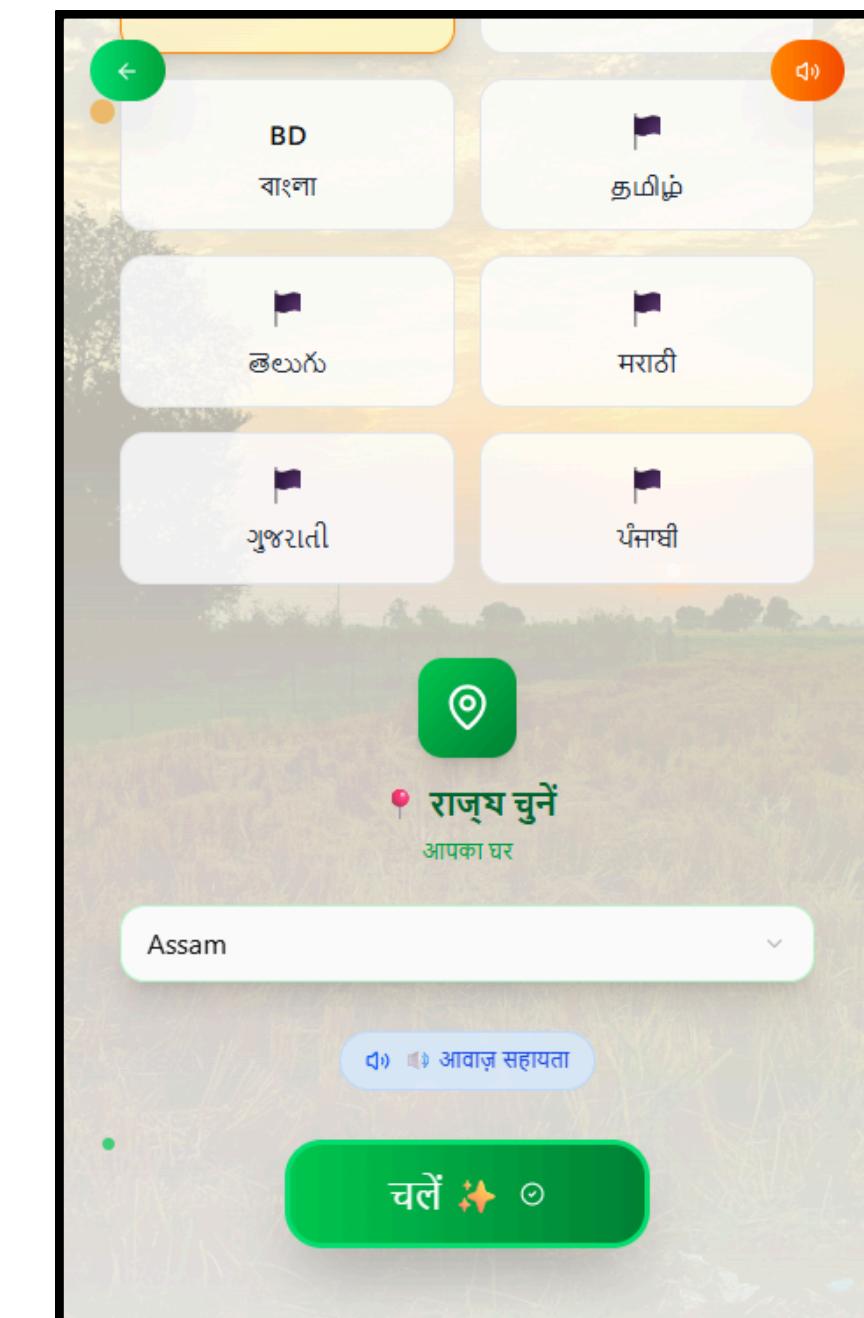
सुझाव: ●

- 1 कार्ड को फ्रेम के अंदर रखें
- 2 अच्छी रोशनी में तस्वीर लें
- 3 कार्ड साफ और पूरा दिखाना चाहिए

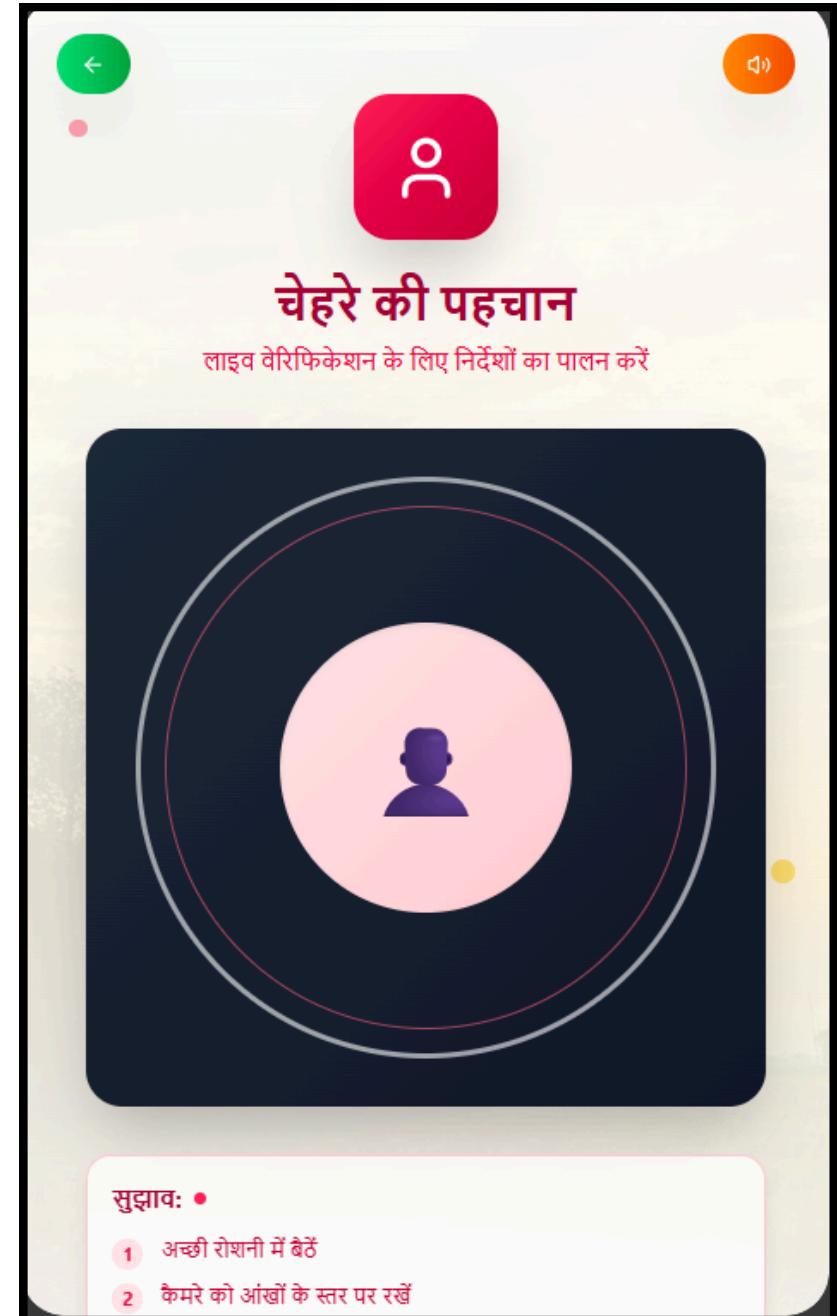
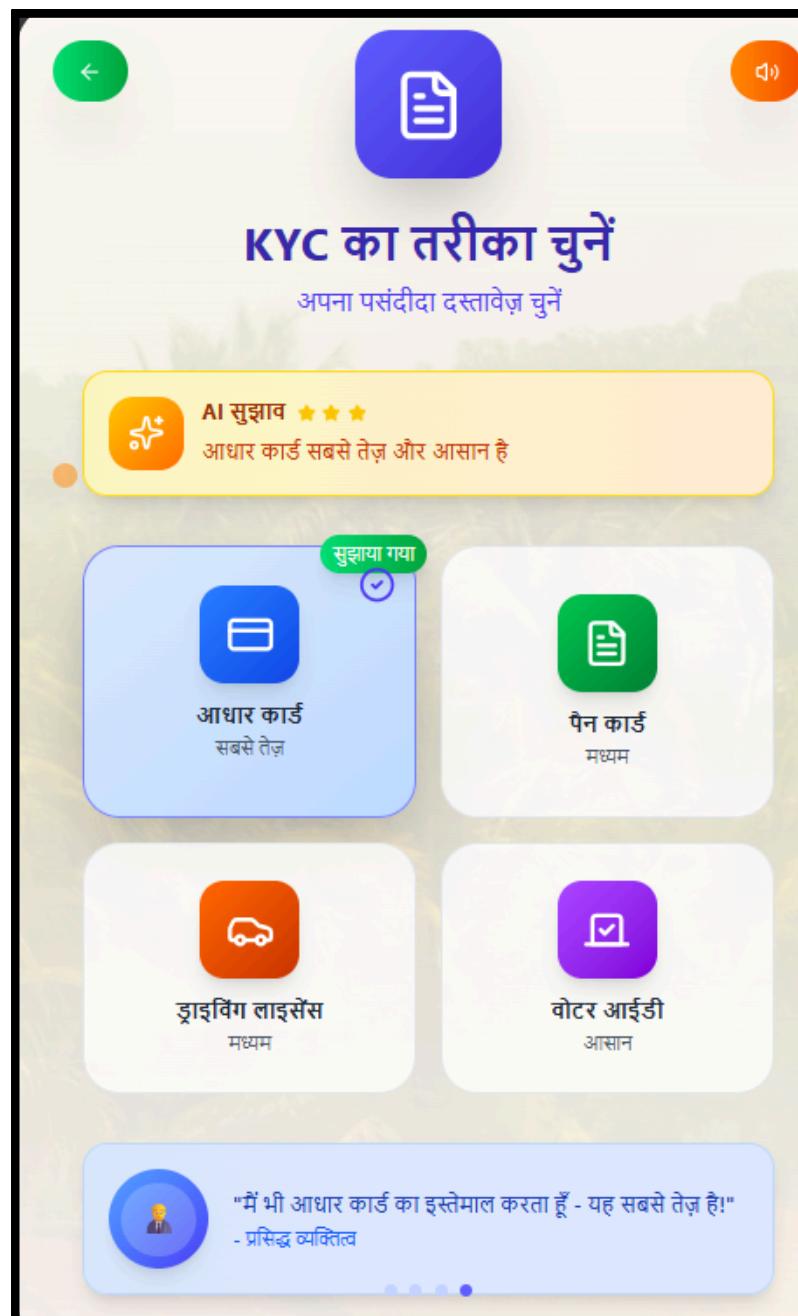


"मैं भी आधार कार्ड का इस्तेमाल करता हूँ - यह सबसे तेज़ है!"  
- प्रसिद्ध व्यक्तित्व

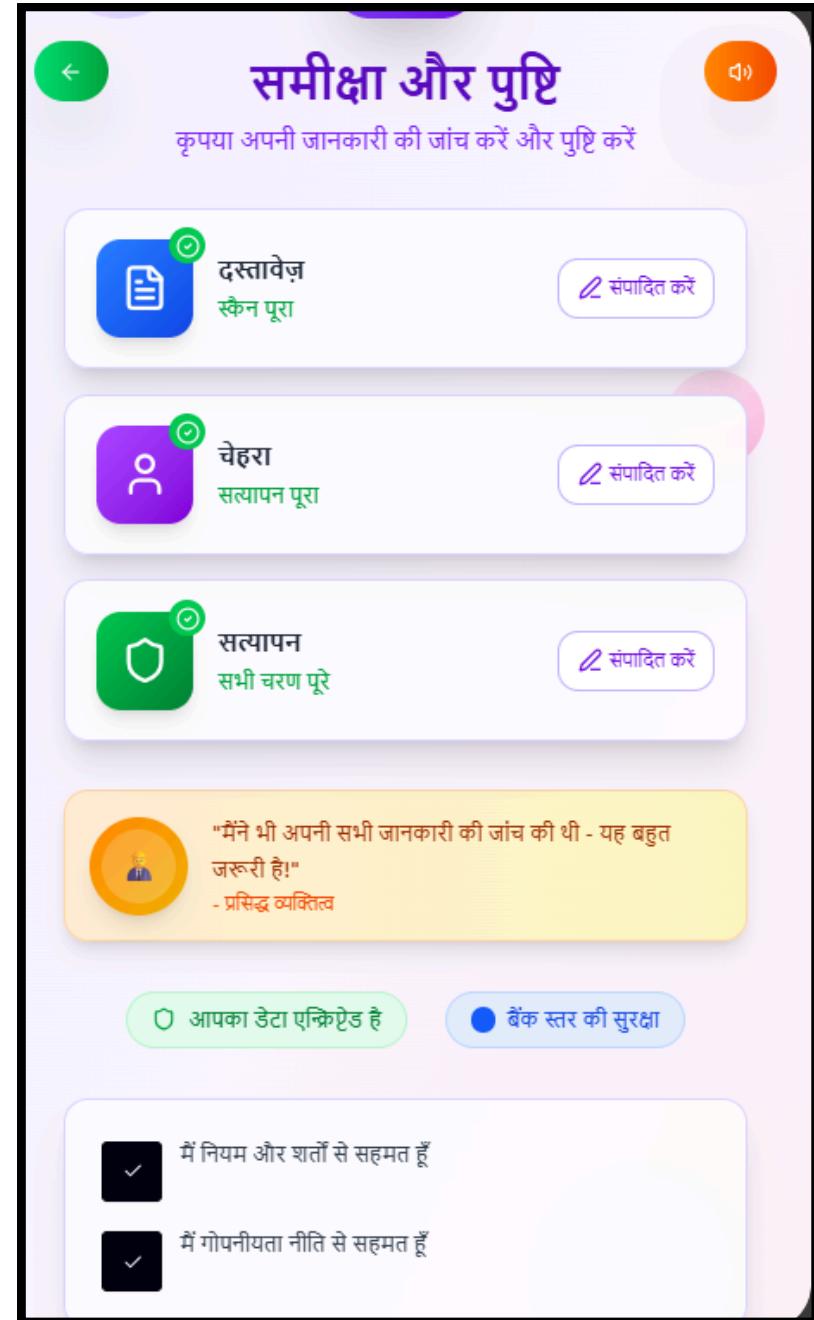
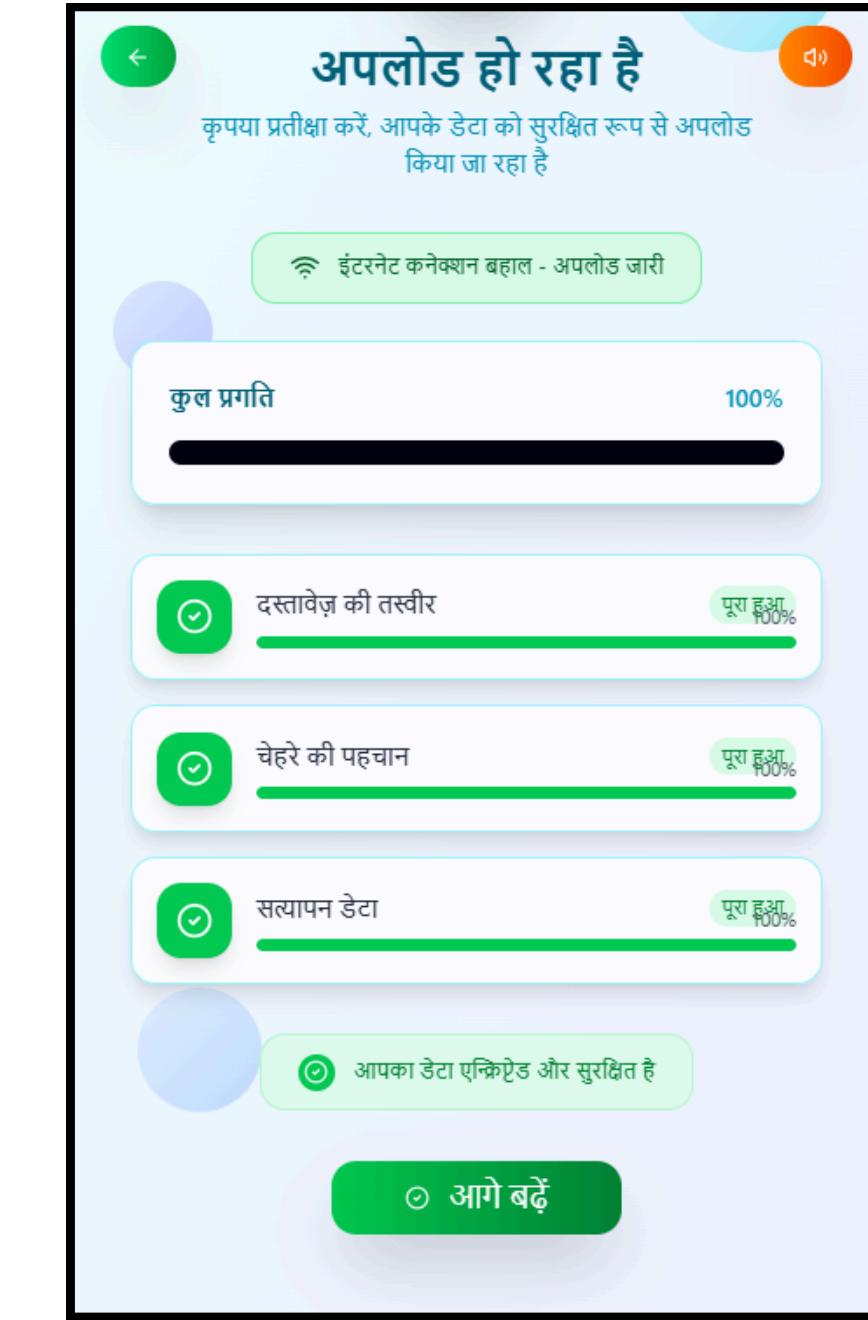
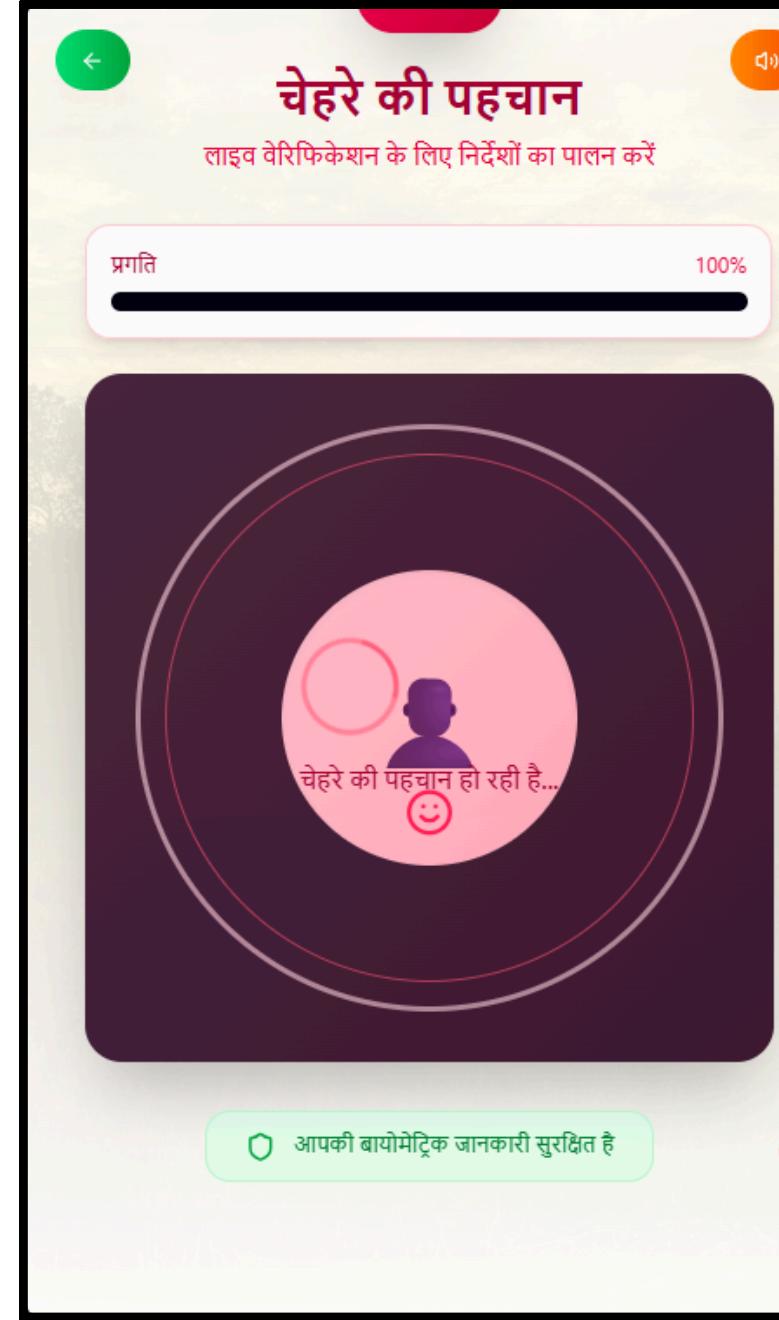
# UI/UX Designing



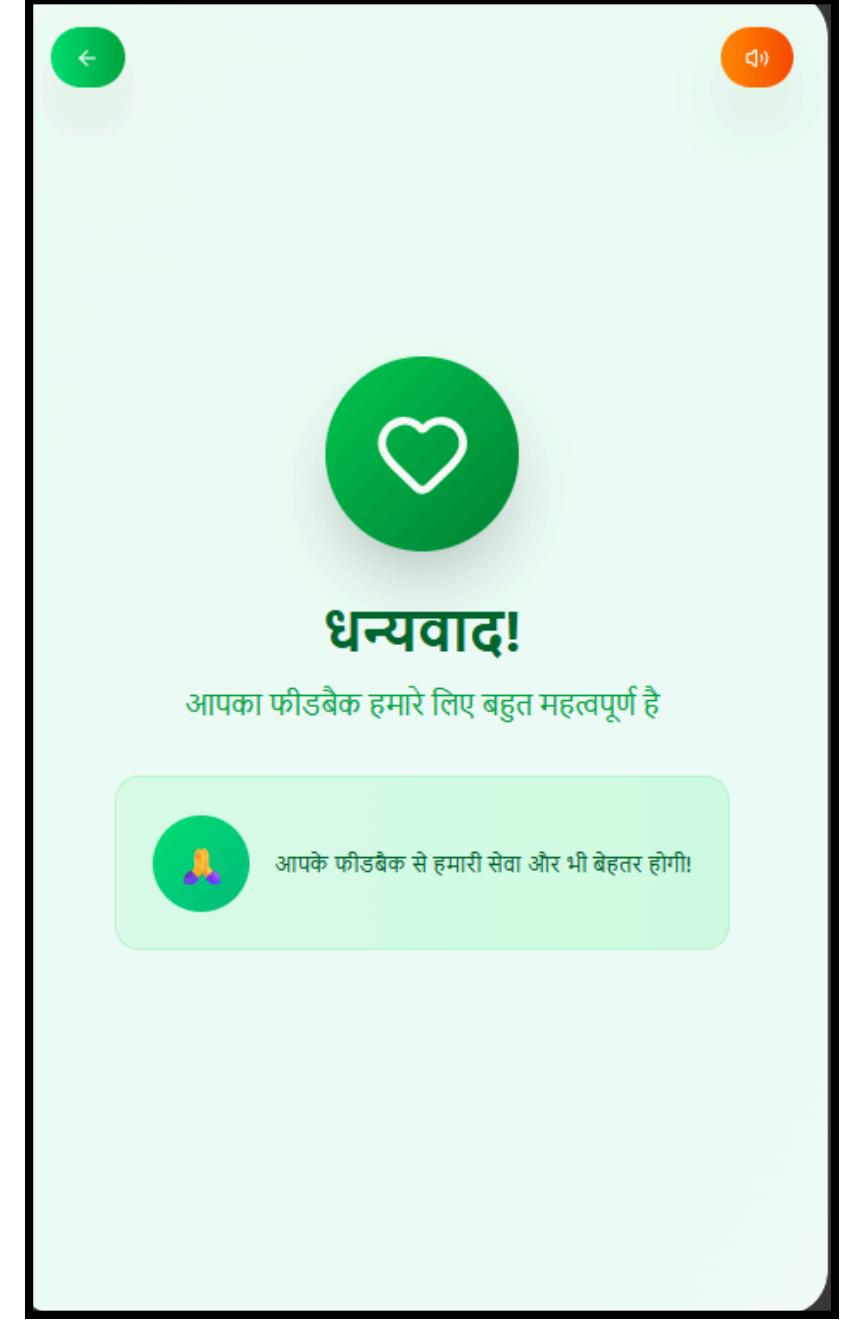
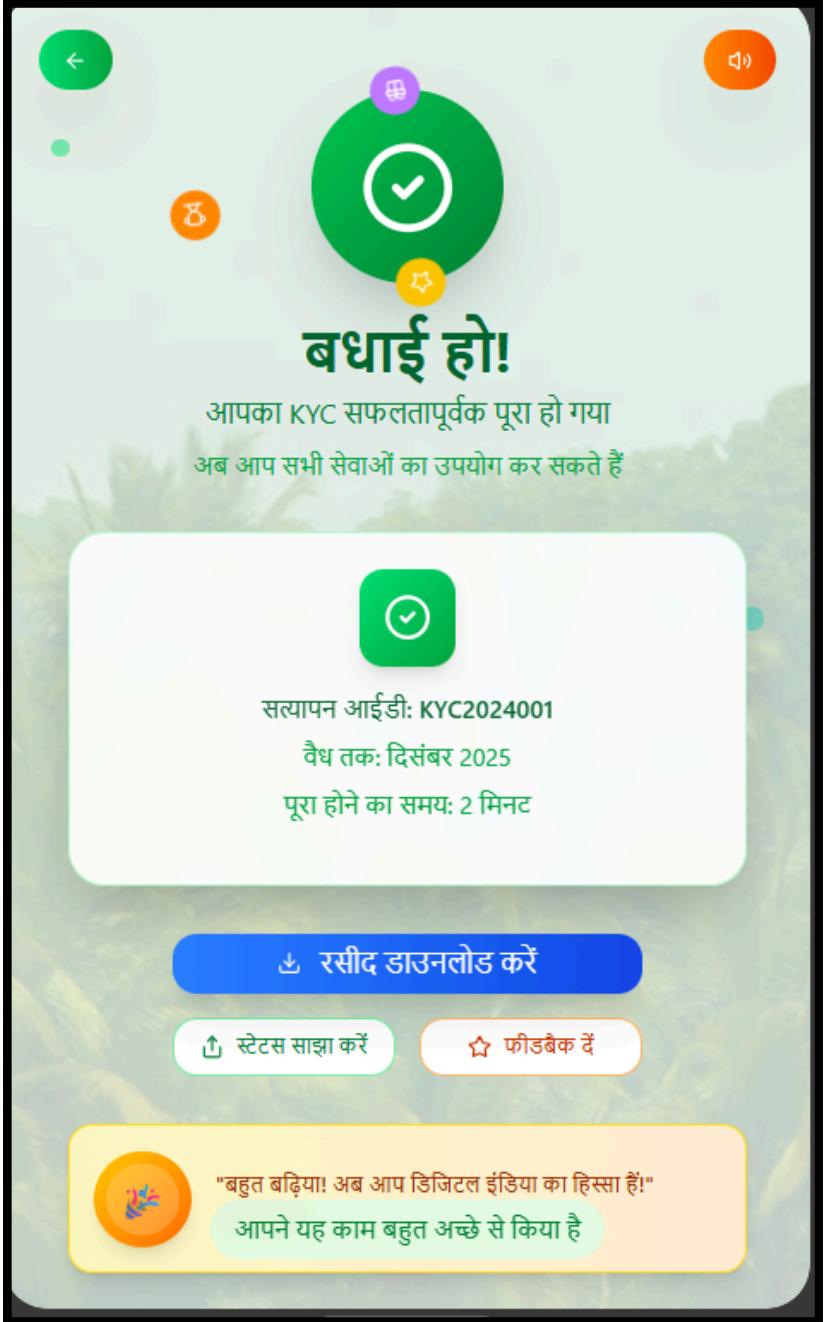
# UI/UX Designing



# UI/UX Designing



# UI/UX Designing



# Key Features

- Multiple KYC options  
Choose from common IDs or use Digilocker for instant, paperless verification.



**Lightweight & Optimized:** A tiny app designed to run fast and smooth on any smartphone, without wasting storage.

**Smart Face Authentication:** Prove you're a real person with simple actions that ensure a secure match to your photo ID.



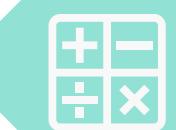
**Offline & Low Bandwidth Support:** Complete your entire KYC without a connection; we'll automatically submit it when you're back online.



**AI-powered Document Scanner:** Our smart camera guides you to a perfect scan, automatically fixing errors like blur or glare.



- Multi-Language & Voice Guidance: Navigate the app easily with voice instructions in your preferred local language.



**Data Security & Privacy:** Your information is scrambled the entire time and never stored on your phone after submission.



**Trust & Inclusivity:** A friendly, familiar design with clear security badges makes everyone feel safe and welcome.



# Technical Architecture



**User Device  
(Frontend / Mobile App)**

Lightweight SDK (<15 MB)

Works offline → caches data locally

Provides multi-language + voice guidance

**Middleware / App Server (Backend APIs)**

Handles OTP login, document verification requests

Manages retry/resume flows

Routes data securely to verification engines

**Verification & Security Services**

Face Auth Service → Liveness + Face Match (some on-device, some server-side)

Document Verification → Aadhaar/PAN/DL/Voter APIs, Digilocker integration

Encryption Layer → End-to-End, AES-256

**Data Storage & Analytics**

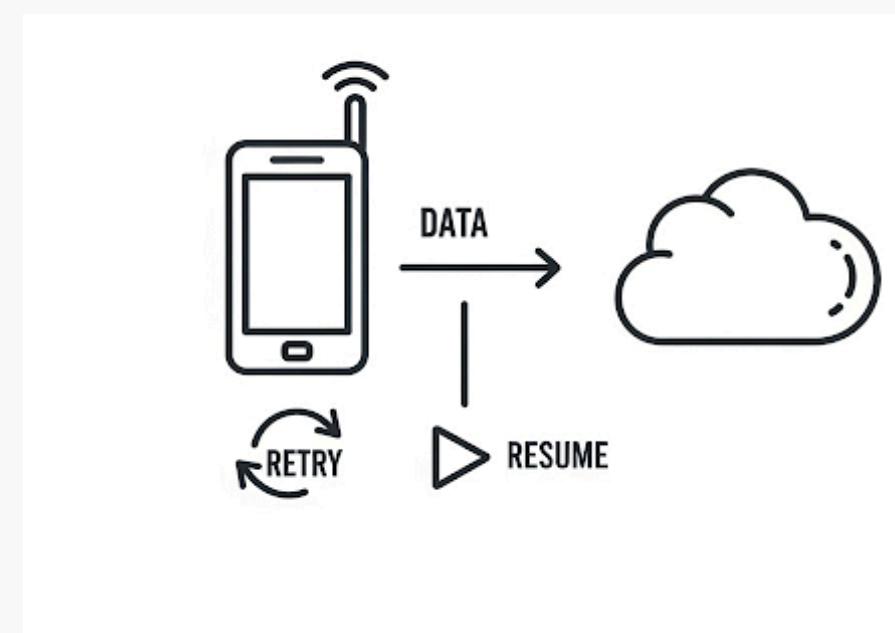
Temporary secure storage (no long-term raw data retention)

Anonymized logs for app improvement

Analytics → measure success (completion rate, retry attempts, failures)

# Optimizations

Building a successful mobile app isn't just about features; it's about accessibility. For a global audience, especially in emerging markets, every megabyte and every second of load time counts. Our approach focuses on creating a lite, data-efficient application that delivers a seamless user experience, no matter the device or network quality. We achieve this by optimizing every aspect of the app, from its initial download size to its data consumption and performance.



## LIGHTWEIGHT SDK

Keep the app size under 5 MB to ensure smooth installation on low-end devices.

## IMAGE & DOCUMENT COMPRESSION

Reduce file size before upload while preserving clarity, saving bandwidth in rural areas.

## OFFLINE-FIRST DESIGN

Store user data locally when the network is weak and auto-sync once connectivity is restored.

## PROGRESSIVE LOADING

Load only the essential features/screens first; defer heavy modules until needed.

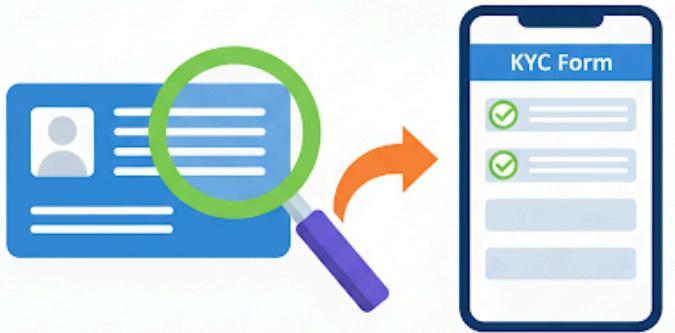


# *How We Built the App: Our Choices*

Decision Point	Our Choice	Reason
<b>Data Processing</b>	Simple checks on phone, complex checks on server.	Makes the app fast and works offline, but still accurate.
<b>Security</b>	Strong encryption is our top priority.	Keeps your data safe. The app might feel a tiny bit slower, but is still easy to use.
<b>App Size</b>	Kept the app very small and light.	Works fast on all phones, even basic ones. We left out fancy features to keep it reliable.
<b>Offline Use</b>	Capture everything without the internet.	You can start anywhere; the app sends data when it finds a connection.

# *AI & LLM-Powered Innovations for Bharat*

## Document Understanding & Auto-Fill



Automatically extracts key data (name, DOB, address) from uploaded documents (Aadhaar, PAN, DL, Voter ID) to pre-fill KYC forms.

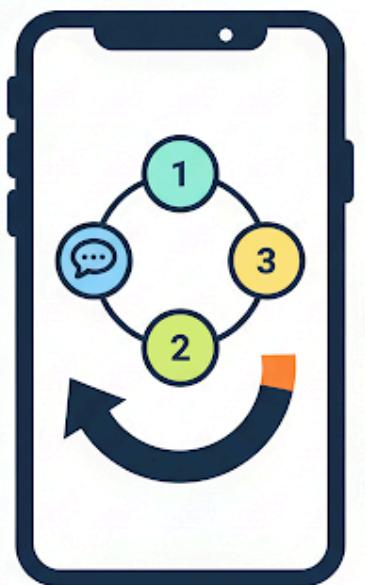
Significantly reduces manual entry, minimizes errors, and accelerates the onboarding process.

## Voice & Chat Guidance

Offers proactive, step-by-step voice and text instructions in the user's regional language, tailored to each stage of the KYC process..Enhances accessibility for low-literacy users, reduces confusion, and ensures accurate document capture and submission.



## Step-by-Step Narration Mode



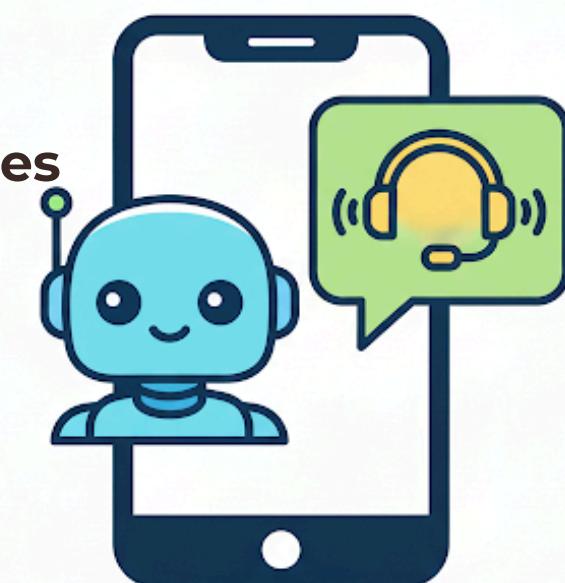
Guides users through micro-steps of the KYC flow with synchronized voice narration and visual prompts, confirming each action before proceeding.

Minimizes errors, provides confidence, and makes complex processes manageable for digitally nascent users.

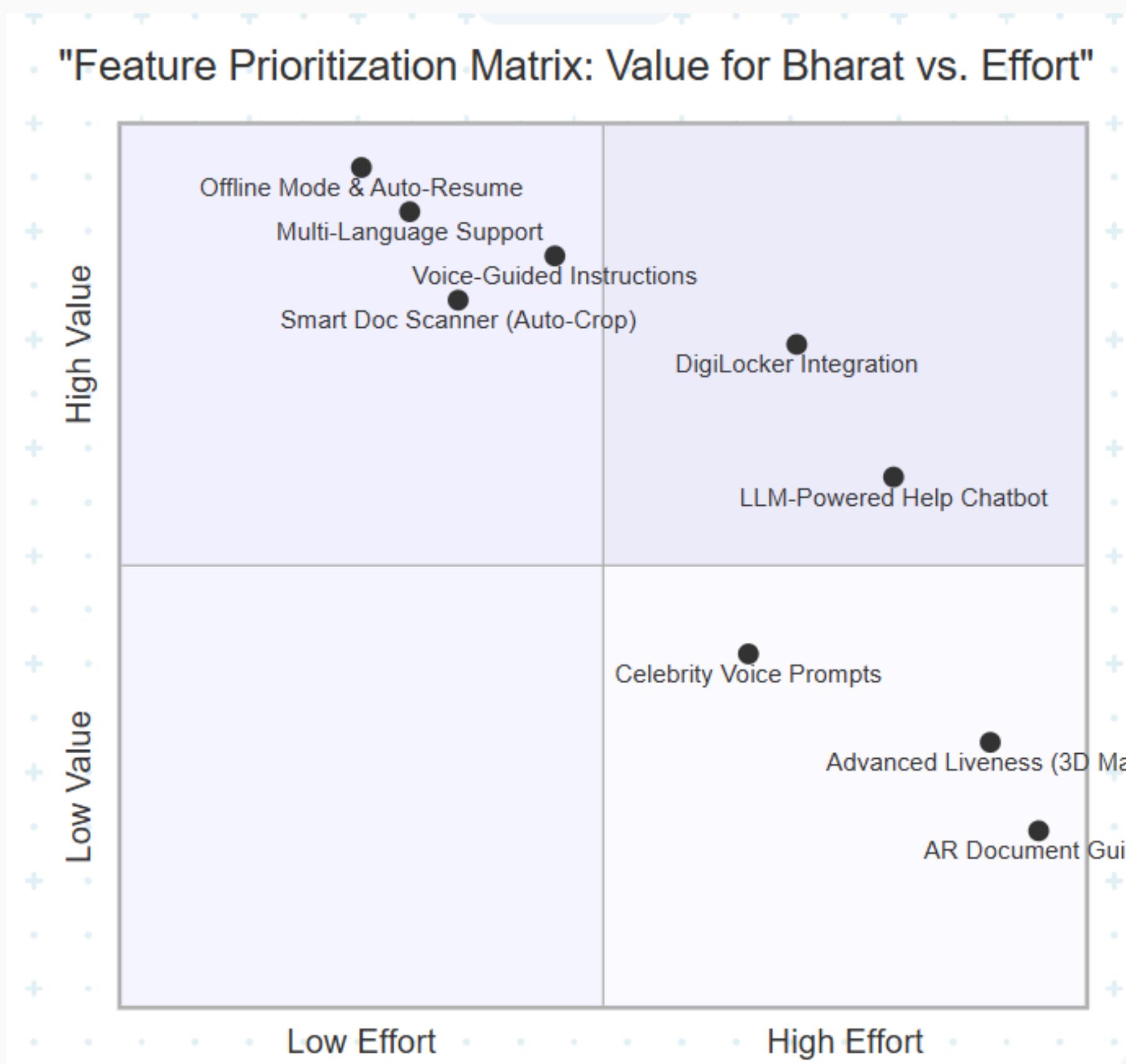
## AI Assistant (Helpdesk & Contextual Support)

A context-aware virtual assistant that provides real-time answers to FAQs, clarifies errors, and offers guidance at any point in the KYC journey.

Reduces the need for human support, empowers users to self-serve, and builds trust by providing immediate, reliable assistance.



# Prioritizing Key Features



# *Measuring Our Impact: Success Metrics*

**Our primary goal is to build a reliable and inclusive KYC solution. We will measure success by focusing on user behavior and operational efficiency, especially in our target demographic.**

## User Adoption & Reach



**Adoption Rate:** Percentage of target users who download and register.

**Initial Engagement:** Time spent on welcome/language screens before drop-off.

## KYC Completion & Efficiency



**KYC Completion Rate:** Percentage of users who complete the full process.

**Low-Network Completion Rate:** Critical metric for low-bandwidth zones.

**Session Time:** Average time taken to complete KYC.

## User Experience & Trust



**Drop-off Rate Reduction:** Analysis of where users abandon the process.

**User Trust & Feedback Scores:** In-app feedback on ease of use and security.

**Support Ticket Volume:** Decrease in help requests.



**THANK  
YOU**

**“Digital inclusion is not just about technology, it’s about trust, guidance, and empowerment.”**