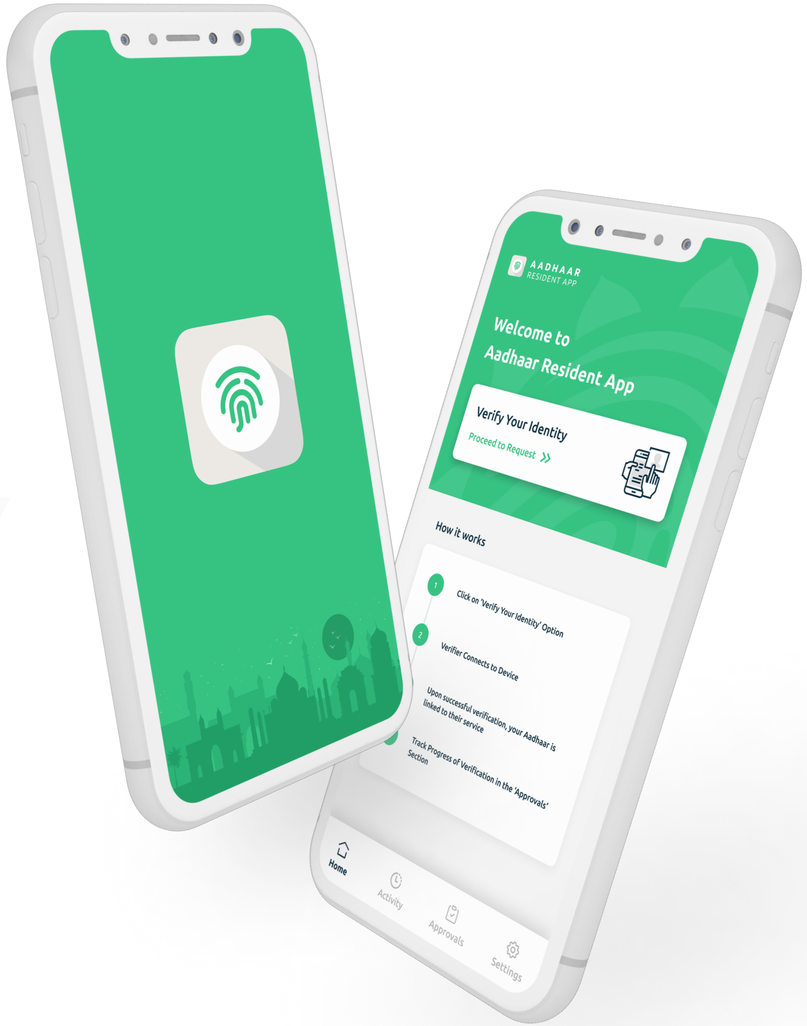
Aadhaar Verification Solution

Team Reference ID : **7KmzHsAxgk**



The Problem

Theme: Authentication Reimagined

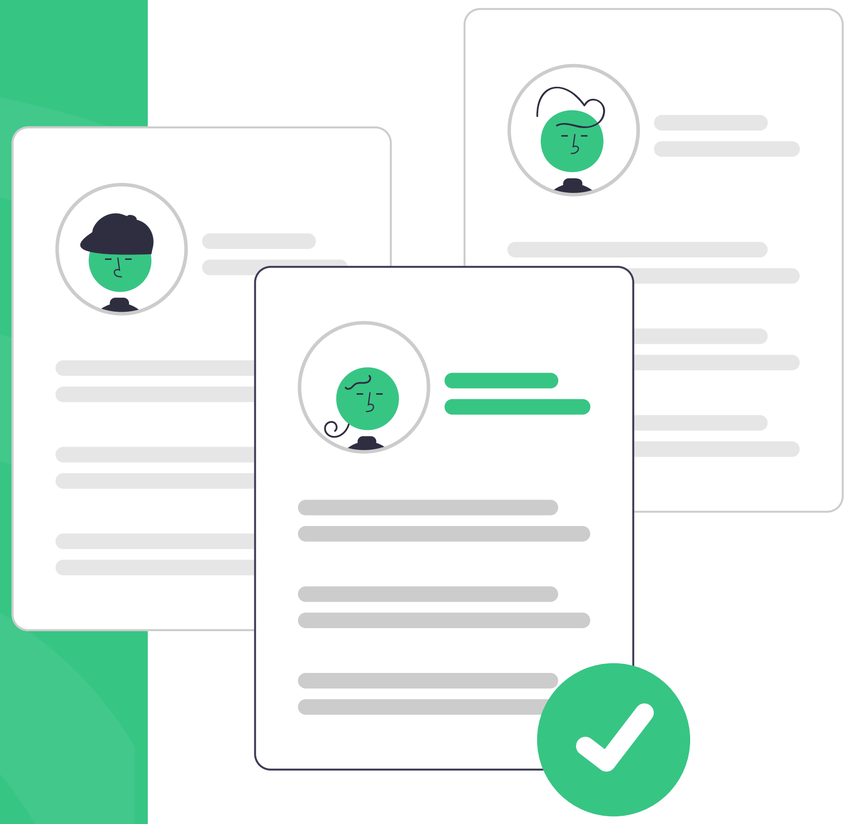
PS-2 : Aadhaar Backed Video KYC For Availing Resident Facing Services

- Using face match technology for online/offline authentication
  Build a system that can help the verifier establish your identity (resident) without accessing the biometric authentication platforms of UIDAI

- The resident shares the offline eKYC document (available in XML format) with the verifying agency for validation

- The verifier will use the photo taken on site and match it against the photo available in the eKYC document

- The verifier application can use the headless face authentication APK of UIDAI to validate the eKYC document in a completely offline (not connected to UIDAI backend systems) manner for authenticity using face match technology.



Our Solution

Our Approach is to create a secured Store on the Resident's device using the Resident App.

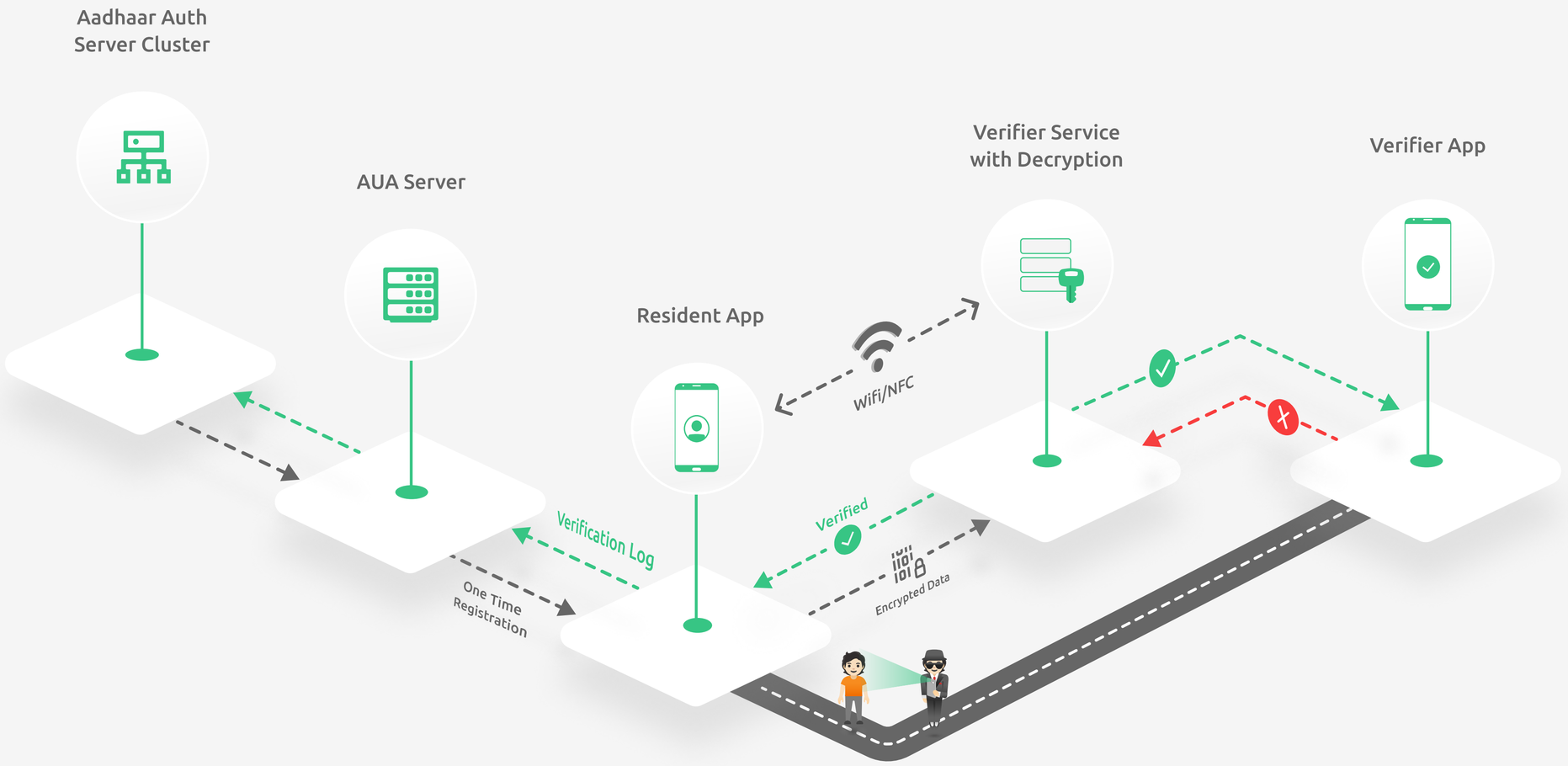
Obtaining Offline e-KYC data upon first time App registration and encrypting it safely using Device Biometrics.

The encrypted data is streamed to the verification app using WiFiDirect / NFC where the Resident Device acts as a Beacon and Verification App acts as a Receiver.

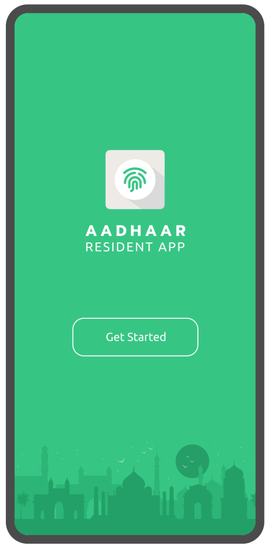
Verification happens when the verifier uses Facial Recognition to verifiy the User's identity.

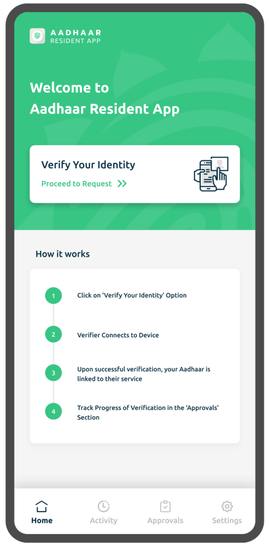
After Verification, the Result is streamed back using the same technique and optionally sent to the UIDAI servers for Logging and Audit Purposes.

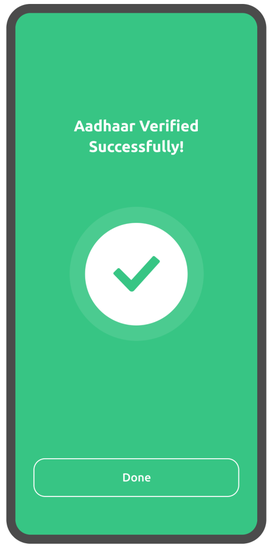
How It Works

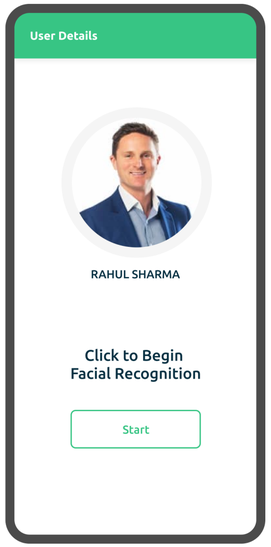

Aadhaar Auth
Server Cluster
AUA Server
Resident App
Verifier Service
with Decryption
Verifier App
WiFi/NFC
Verification Log
One Time
Registration
Verified
Encrypted Data

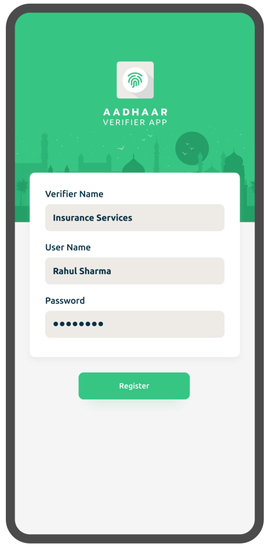
Snapshots

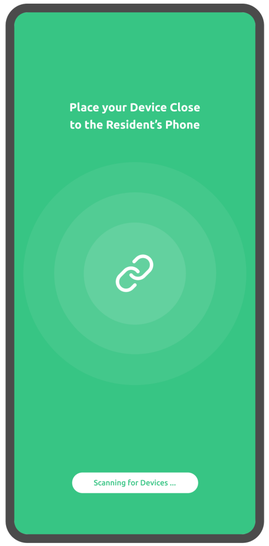

AADHAAR
RESIDENT APP
Get Started

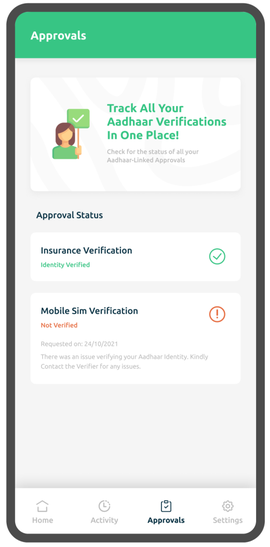

AADHAAR
RESIDENT APP
Welcome to
Aadhaar Resident App
Verify Your Identity
Proceed to Request
How it works
1 Click on 'Verify Your Identity' Option
2 Verifier Connects to Device
3 Upon successful verification, your Aadhaar is linked to their service
4 Track Progress of Verification in the 'Approvals' Section
Home
Activity
Approvals
Settings

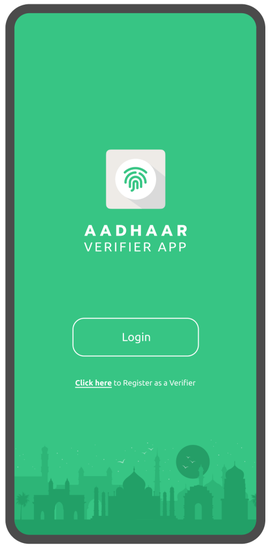

Aadhaar Verified
Successfully!
Done


User Details
RAHUL SHARMA
Click to Begin
Facial Recognition
Start


AADHAAR
VERIFIER APP
Verifier Name
Insurance Services
User Name
Rahul Sharma
Password
••••••••
Register


Place your Device Close
to the Resident's Phone
Scanning for Devices ...


Approvals
Track All Your
Aadhaar Verifications
In One Place!
Check for the status of all your Aadhaar-Linked Approvals
Approval Status
Insurance Verification
Identity Verified
Mobile Sim Verification
Not Verified
Requested on: 24/10/2021
There was an issue verifying your Aadhaar Identity. Kindly Contact the Verifier for any issues.
Home
Activity
Approvals
Settings


AADHAAR
VERIFIER APP
Login
Click here to Register as a Verifier

Conclusion

We have made the entire app Offline which is done using Offline EKYC service. We will be using FaceRD on the Verifier Side. The Resident App and the Verifier App communicate using Wifi P2P. The data sent by the resident is encrypted and can only be decrypted by the nearby verifier device. This way our app helps in solving several Aadhaar related issues.