AADHAR AUTHENTICATION APPLICATION FOR RESIDENT AND VERIFIER

UIDAI HACKATHON - 2021

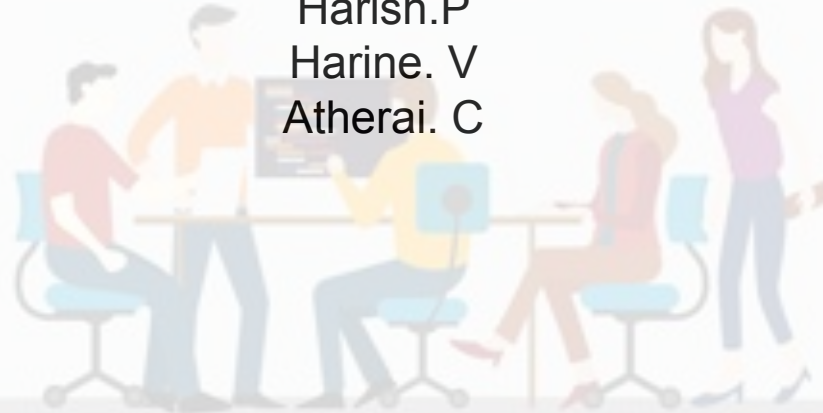# ST. JOSEPH'S INSTITUTE OF TECHNOLOGY

ERROR MAKERS

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Airport/Stadium/Railway check–in application

- Ensures fast check-in.
- Needs no access to UIDAI server for verifier application.
- Needs two applications 1.Resident application
  2.Verifier application
- Aadhaar Number is not disclosed.
- Ensures both online and offline mode of services.

QR CODE:

The main advantage of this QR code technology is offline access (when internet connection is off).

It is a code format that can be understood by human by scanning the QR code using QR code scanner.

The idea is that after scanning the QR code, it will generate the eKYC verified document image.

KYC AUTHENTICATION

KYC - Know your customer.

KYC is a tool to identify the right person.

To verify person's identity, understand their nature

KYC authentication is one of the best practices that ensures security of data as verification is done by the UIDAI itself.

UIDAI provides eKYC API which uses captcha and OTP generation to ensure data security.

SignDesk

eKYC - Filling up a form

E-KYC
Electronic Know Your Customer

VectorStock®   VectorStock.com/35569356

OTP GENERATION

The static password is the most common authentication method and least secure. OTP authentication is the secured one.

It prevents fraudulent activities especially in financial transaction. A user does not have to remember any password.

OTP is a 4 or 6 digit code that can be used only once within the prescribed time limit.

RESIDENT APPLICATION

Our application is to provide security along with offline and online mode of services.

PS-1: Airport/ Stadium/ Railway check-in application

First and foremost it should work on both online and offline.

With the eKYC API provided, the resident application gets UID and captcha after submitting next step it sends OTP to the mobile number, further the user needs to fill the details prompted and submit. Once the details are found correct the verification gets completed successfully.
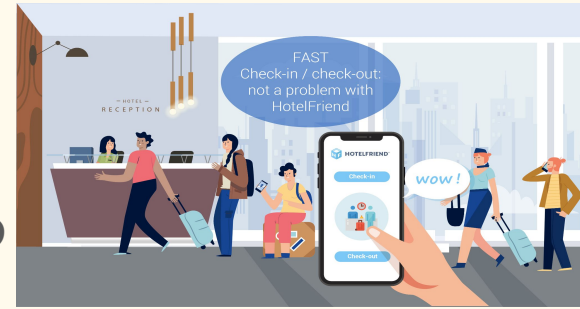
The electronic document received after eKYC verification is stored in the Database of the resident application with which the application generate a QR code with the image of the document received. Masking of data is enabled if some aadhaar details are present in the eKYC document.

SMOOTH CHECK-IN

The application generates QR code which the verifier scan to verify, to ensure one's identity. After the verifier (airport/stadium/railway official) scans, the QR code produce the eKYC document. This provides a no-contact verification that suits our current pandemic situation.
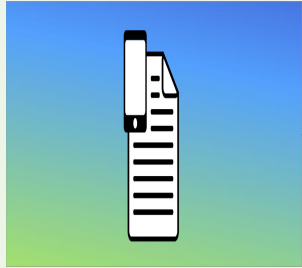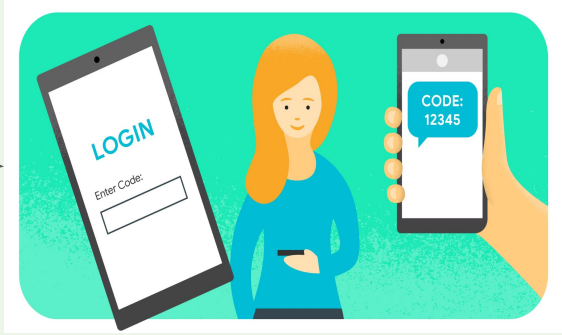
NO ACCESS TO UIDAI SERVICES

The third party verifier, receives a document which is stored in the DB of the resident application with unique ID. So, there is no connection between UIDAI server and third party verifier.
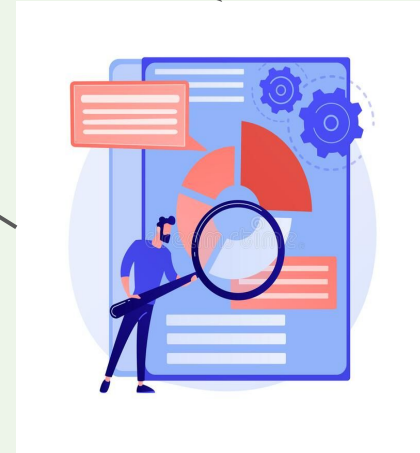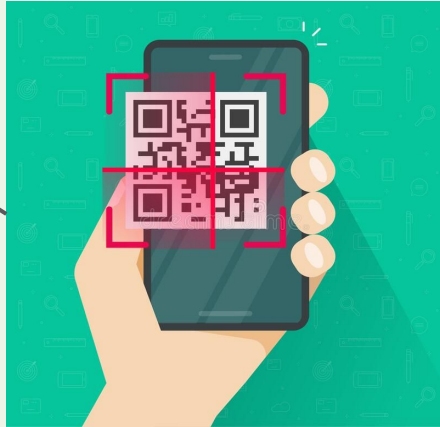
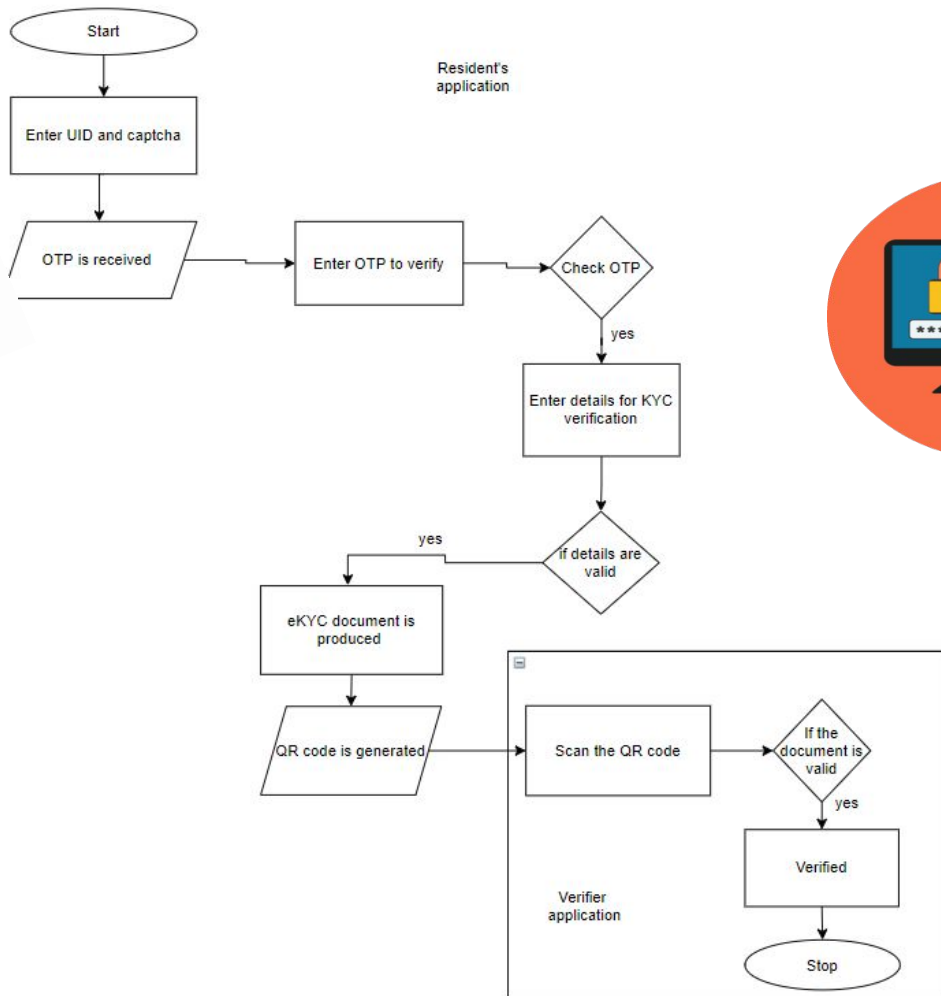# AN OVERVIEW OF APPLICATION

UID AND CAPTCHA

Verifier application

Resident's application

Start

Enter UID and captcha

OTP is received → Enter OTP to verify → Check OTP

yes

Enter details for KYC verification

yes ← if details are valid

eKYC document is produced

QR code is generated → Scan the QR code → If the document is valid

yes

Verified

Verifier application

Stop