

AADHAR AUTHENTICATION APPLICATION FOR RESIDENT AND VERIFIER



UIDAI HACKATHON - 2021

ST. JOSEPH'S INSTITUTE OF TECHNOLOGY

ERROR MAKERS

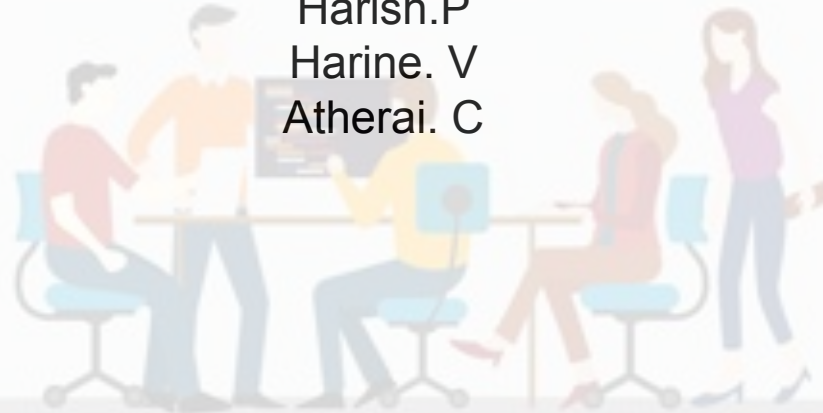
Gopika. B

Amal. L

Harish.P

Harine. V

Atherai. C

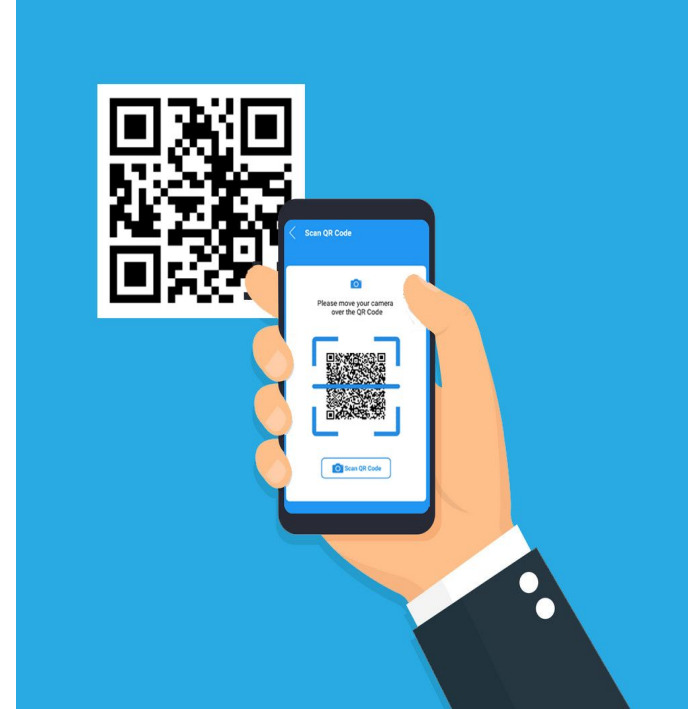


QR CODE:

This machine readable code can store url & other information in a machine understandable manner which can be scanned by anyone using a scanning application.

When internet access is not available in remote areas, offline access can be ensured, and this is made possible via the QR code which allows data access and verification.

While the technology is moving forward to the next generation i.e. automation & AI, some basic concept needs to get updated, as our QR code auto-regeneration.





Scan the QR Code to verify

Do not share your QR code or any details with strangers

Generate New Kyc

KYC AUTHENTICATION

1. **KYC VIDEO AUTHENTICATION**
2. **eKYC - Filling up a form**

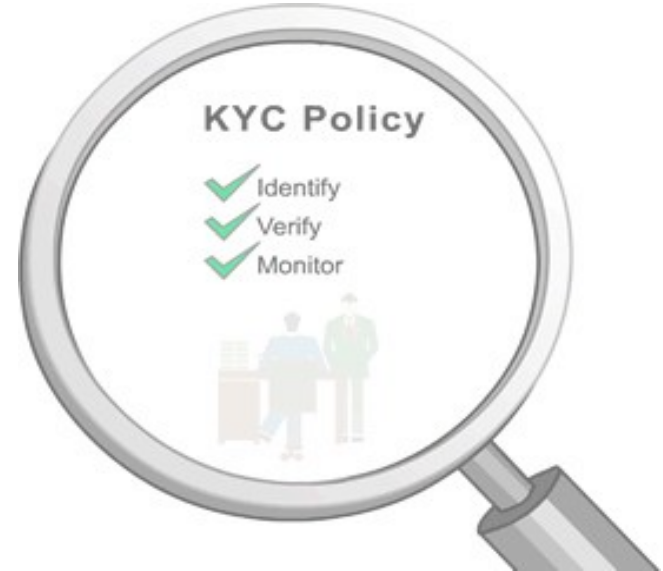
KYC - Know your customer.

KYC is established to reduce fraud.

To verify person's identity, understand their nature

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

And this is a one time process and yet simple like attending a video call or filling up a form.





OTP GENERATION

With the evolution of technology, data security has become a crucial part of technological development.

To prevent hacking and wastage of time due to forgetting passwords, ONE TIME PASSWORD was introduced.

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

OTP Verification



Enter a verification code

A SMS with a verification code has been sent.

Submit

Set Password

Create new password

Confirm password

Submit

Know Your Customer

Reason For Kyc

Choose image

Submit

RESIDENT APPLICATION

The full deployment of our application is to provide security along with offline and online mode of services.

With elaboration of the model, it is necessary to cope up with the level of user and it needs to be a user-friendly application for everyone.

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

First and foremost it should work on both online and offline. This application contains 2 step verification,

- 1. Mobile number verification*
- 2. KYC verification,(face detection and comparing with UIDAI server) one time process.*



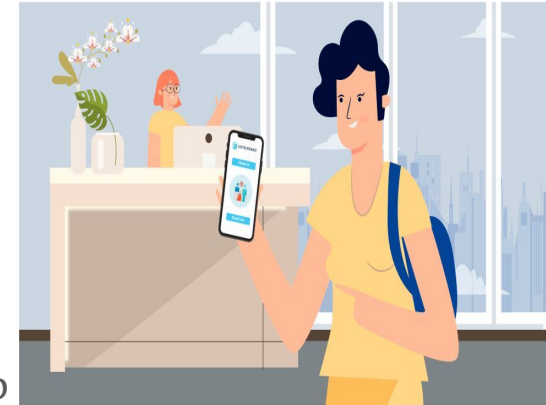
SMOOTH CHECK-IN

The application provides each user a unique QR code which after each scanning gets regenerated and in case it is not used for a prescribed seconds, QR code gets auto-regenerated periodically.

Just showing your QR code for the verifier to scan and verify, is enough to ensure one's identity. After the verifier (airport/stadium/railway official) scans, the QR code produce your image(your photo) with which he can verify your identity. Furthermore this provides a no-contact verification that suits our current pandemic situation.

NO ACCESS TO UIDAI SERVICES

The third party verifier, receives a image which is from the resident application, that she/he uploaded for KYC verification. So, there is no connection between UIDAI server and third party verifier.



FACE AUTHENTICATION

Training the machine to recognise human face using Machine Learning Algorithms.

Instead of verifying image from UIDAI server, we have made an interface which uses UIDAI server for initial verification(since people can access information about themselves in UIDAI).

For verification, firstly we collect basic data from the user and for second step verification, photo of the user is uploaded which gets verified from UIDAI server's image data.



Login

Register

Mobile Number

Password

Submit

Login

Register

Mobile Number

Enter your name

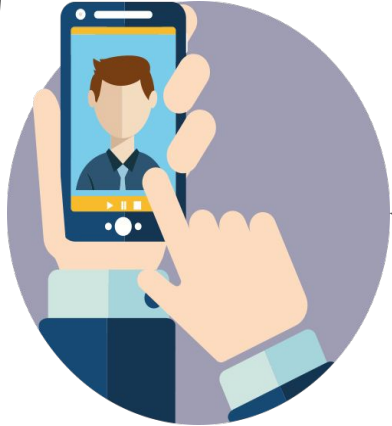
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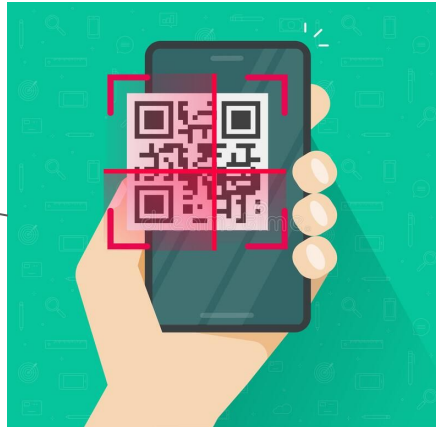
Submit

A OVERVIEW OF APPLICATION

**PHONE
NUMBER**



Verifier application's function



**QR CODE
GETS
GENERATED**



VERIFIER APPLICATION

The verifier can scan the QR code with this verifier application only. So that data can be secured. And data provided through that QR code can't be misused.

This application's main function is to scan. After scanning, the QR code gives resident's photo which he/she produced during KYC verification only from resident application.

Our utmost aim is to secure resident's data and make a optimum solution for the given problem.

