new-blocks

Update your aadhar address without any supporting documents

Team-name: block-eternals
Team-id: NkevDDsVtE

Installation:

Clone the repository:

https://github.com/bhargavandhe/new-blocks.git

Once cloned, cd into that directory and install all the dependencies by running the command. (Please note that nodejs should be preinstalled on your computer)

```
npm install
```

This should take a while to install. After installation, start start the development server by running the command

```
npm start
```

So the basic procedure is given below

1) Registration of USER(/Person with valid proof of address)

A) Enter Aadhar number in given field

B) Solve the captcha

1) Captcha is generated using API endpoint provided by UIDAI

2) Verification of captcha is also done by API endpoint

C) After entering the right captcha , OTP is generated and sent to the USER's registered mobile number.

D) USER then enters OTP in given field

E) Upon entering a successful OTP, the API returns the user’s EKYC in XML format, which is then converted into JSON format for further use.

F) We then take password from USER to login.

G) A secure private key is then generated by using the user’s UID and password entered, so as to encrypt his eKYC and store it on the IPFS

(---- The InterPlanetary File System (IPFS) is a protocol and peer-to-peer network for storing and sharing data in a distributed file system. IPFS uses content-addressing to uniquely identify each file in a global namespace connecting all computing devices. ——) network.

G) As USER has all verified documents to prove that he lives in a particular location and hence everything is stored in IPFS.

H) All this data (i.e. Aadhar number and password) is stored in IPFS (InterPlanetary File System) as e-KYC

J)The e-KYC is publicly available through their API endpoints, which Is why, we encrypt and store the e-KYC. This makes the data inaccessible to anyone without the private key.

2) Registration of TENANT

A) Similar registration process will be followed by Tenant.

J) Now since TENANT has changed his address, and TENANT doesn't have valid document to prove it, hence he sends a request to the OWNER through our platform.

K) The OWNER gets a notification on his dashboard stating that there's a person who needs access to your e-KYC for his address .

L) If OWNER accepts the request, IPFS hash code and the private key of OWNER is shared with TENANT and the e-KYC data is successfully decrypted and can be used further for updating his address.

3) UPDATING OF ADDRESS BY TENANT

Many people live in flat system and giving everyone the same address is not valid .

Hence, the user gets an option to make minor changes to address which he borrowed from the OWNER. The updated address is then stored on the blockchain.

Finally the updated and verified address is ready to be fetched.

(p.s - For now data is not updated on Aadhar server ,so we have updated it on our dummy server model.)