

Aadhaar Authentication & Access Tracker

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Problem: Existing privacy issues in Aadhaar



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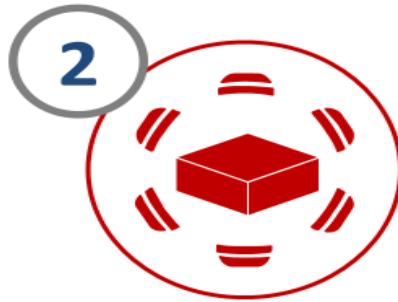
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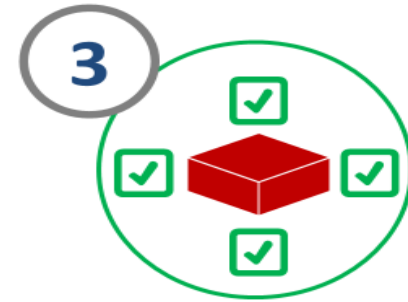
Blockchain – 10,000 ft overview!



- Someone requests a transaction



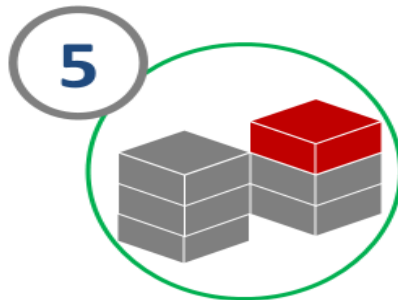
- The requested transaction is broadcast to a P2P network consisting of computers, known as nodes



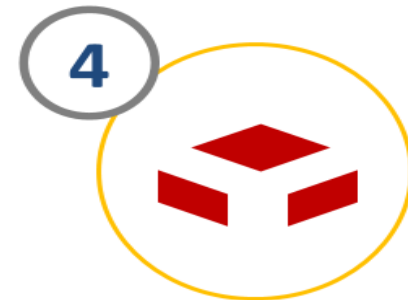
- The network of nodes validate the transaction using cryptography.



- The transaction is complete



- The new block is then added to the existing blockchain.



- Once verified, this transaction is represented as a new block.

Challenges & Limitations

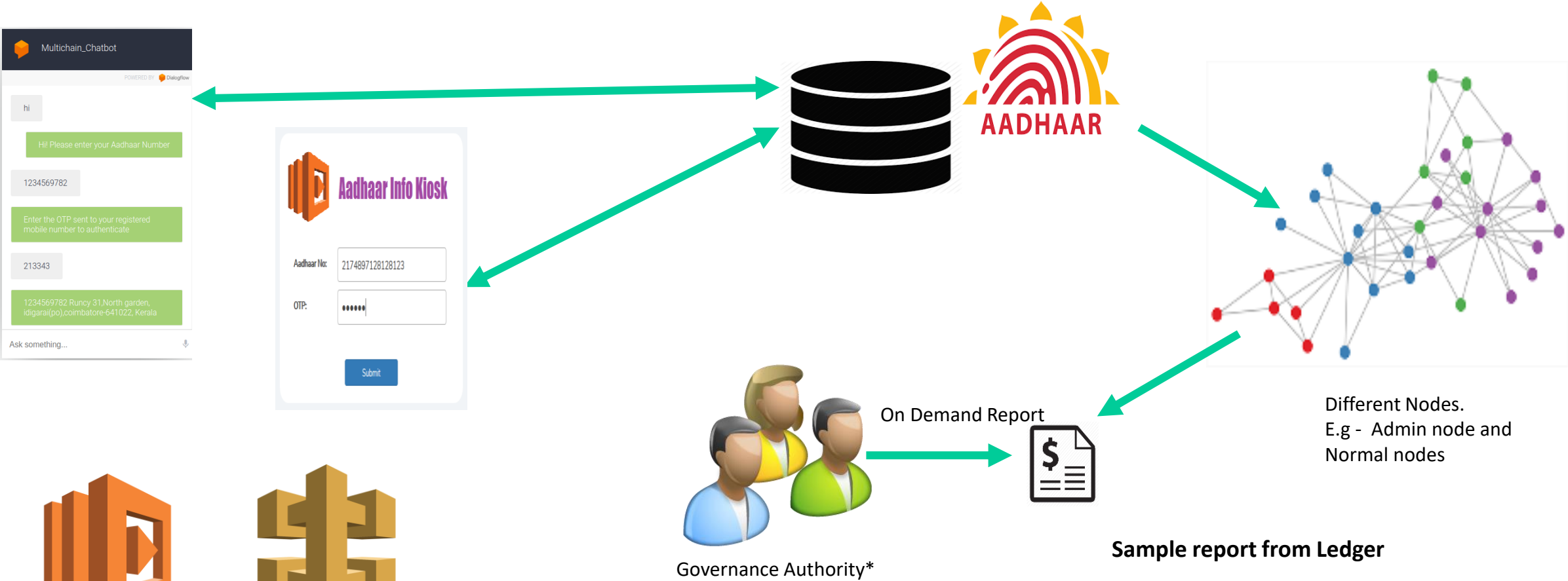
- Difficult to find the sweet spot that balances national security yet respect individual privacy.
- The current solution can suffer from cyber attacks vulnerabilities and trust deficit.
- Difficult to detect cyber attacks and data compromise

Authentication History								
SNo	Auth Modality	Date	Time	AUA Name	UIDAI Response Code	AUA Transaction ID	Authentication Response	UIDAI Error Code
1	OTP	17-03-2018	14:17:27	UIDAI Services	99c9433035394c7f95a17f06622ffe1a	UNA:0002980000:20180317021650194	Success	N/A
2	Biometric	27-02-2018	10:33:31	Paytm Payments Bank Limited	9a660c0e82294dfb8c785b48fec50b64	166f937de5f34772bfef1d4c67418a83	Success	N/A
3	Biometric	27-02-2018	10:32:11	Paytm Payments Bank Limited	1d4905c227604bd683dfd0856bdbb6ac	UKC:eb0e2d0d5c4c48558a2286c6aa33a7cb	Success	N/A
4	Demographic	21-12-2017	14:09:14	Kerala State Information Technology Mission, Government of Kerala	abaf7c473e5746f7b389c65f87ab1b93	DemoAuth:STGKSITM01:20171221020727986	Success	N/A

Proposed Solution

- A distributed yet trustworthy source of truth of all Aadhaar access and authentication
- Breaking the central custodian ownership of audit data from manipulation
- Any person or entity can join the network which would increase strength and thereby every new node would add muscle to Aadhaar authentication network

Aadhaar Authentication & Access Tracker



Node	View Data
Name	root
Created by	stream data (1TPESDS7QI48IA6wn6zUESW1jv4NeeXtZQcsgS)
Items	2
Publishers	1

Stream: root – 2 of 2 items

Publishers	stream data (1TPESDS7QI48IA6wn6zUESW1jv4NeeXtZQcsgS)
Key	[{"Application Name": "Aadhaar Kiosk", "Date & Timestamp": "2018-04-08 03:33:31.284076", "Authentication Mode": "OTP"}]
Data	stream data
Added	2018-04-08 03:30:35 GMT (confirmed)
Publishers	stream data (1TPESDS7QI48IA6wn6zUESW1jv4NeeXtZQcsgS)
Key	[{"Application Name": "Aadhaar BOT", "Date & Timestamp": "2018-04-08 03:30:39.113155", "Authentication Mode": "OTP"}]
Data	stream data
Added	2018-04-08 03:27:46 GMT (confirmed)

**Governance Authority can be any individual, government or private entity*

Demo

Thank You!