

D.I System

Decentralized Identity Verification Platform By Police

Design Decisions

Permissions

We do not add permissions to this case because if we give permissions to a key, that key can submit transaction to block, so it's difficult to provide permit key for all users

HardCoded Data

The public keys of police are hardcoded inside. When police login using the private key, it calls a function that generates a public key for this private key. If this public key matches with the hardcoded public key, then police can login. This method is used for more security for police login, in order to prevent fake & suspicious attempts.

Payload Encrypted

When a user submits data, major info is encrypted for more security, it reduces the risk of data loss and transparency becomes less when interacting with other entities

Events & Subscriptions

We create 2 custom events in this project.. It occurs when police verify or reject in order to identify what happens in the back side or related to the validator should inform the client using this custom event.

If custom events are not provided, can't identify what happens inside, events are mainly used to broadcast msgs we can also subscribe to application specific events like block commit or state delta events

Addressing scheme

Addressing scheme is used here with the public key of the user. Address for the user is created by this public key which has been gotten from the private key when the user inputs a key from the login page, using the public key the address should be more unique