Digital wallets

Creating a wallet platform which provides users with the ability to create digital wallets for transferring and holding crypto assets on blockchains like bitcoin, ripple and Ethereum.

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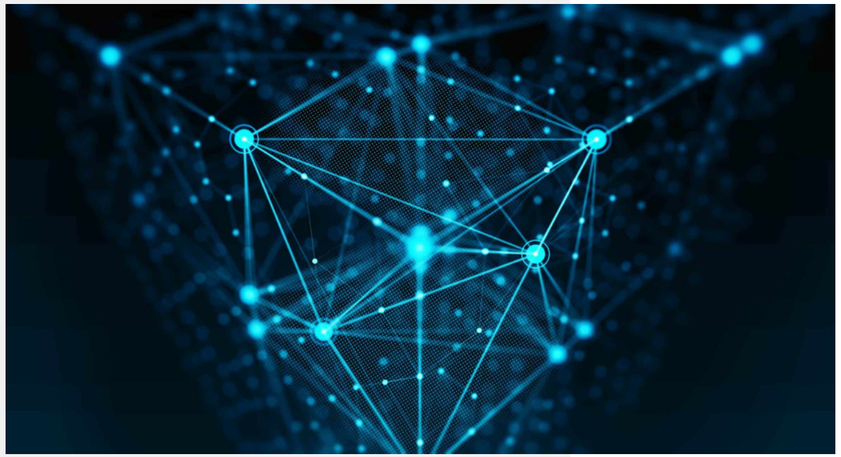
Problem Statement

What exactly are we working on

- There exist no free wallets that provide the ability to trade over different blockchains
- Existing wallets donot perform AML checks
- There is no platform that provides an environment where users participating are not annonymous.



Crypto wallets

A digital wallet enabling the functionality of creating a wallet and dealing with crypto assets.

On our platform, users can:
Interact with the blockchain and their corresponding digital assets.

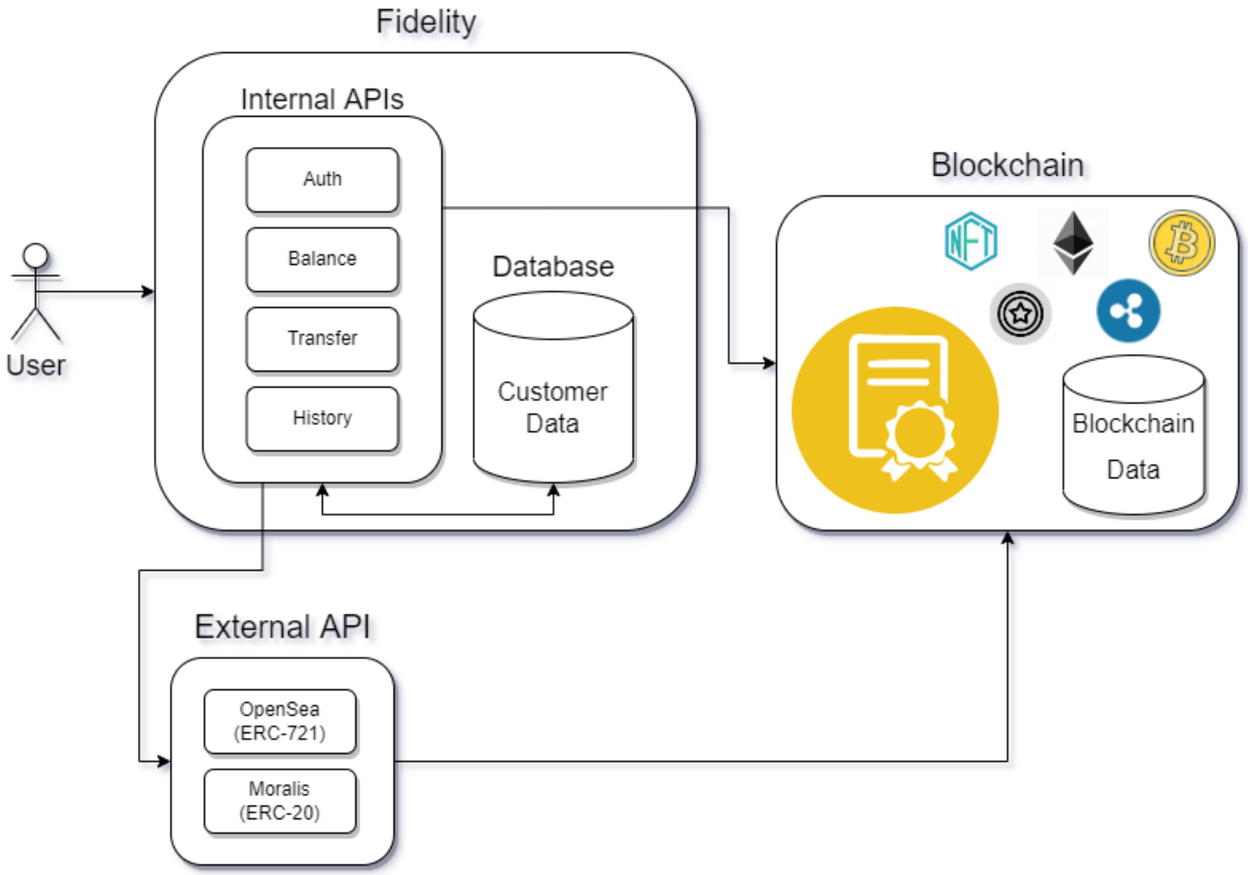
Getting Balance of assets

Transferring assets

Fetching transactions Logs

Component Diagram

Our workflow



Front end : React

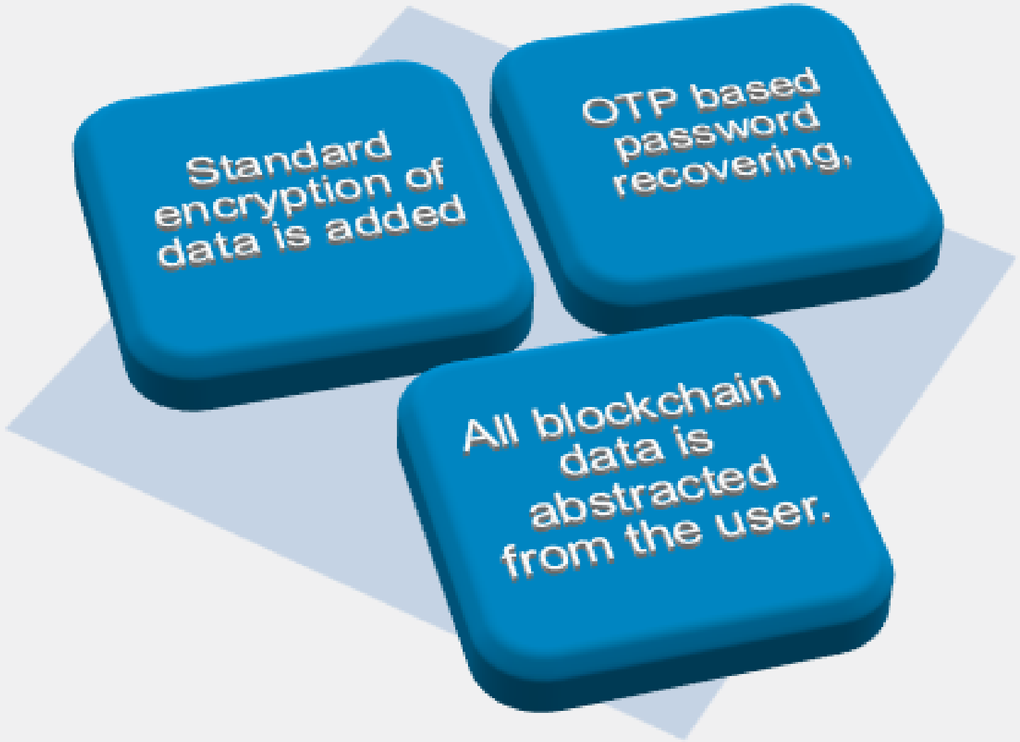
Backend : Flask and Python

API's and SDK's

- **xrpl-py** - The Ripple API
- **bitcoin-lib** - Bitcoin SDK
- **web3** - SDK to interact with blockchain
- **Infura and Etherscan** - Ethereum API
- **Moralis and OpenSea –** Tokens and NFTs
- **Database:** MySQL

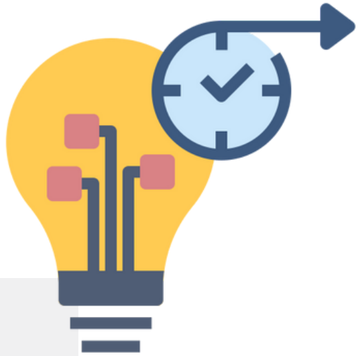
Security

Is it safe?



Future scope

What's next?



- Can be integrated with the existing platform.
- Multi-signature wallets can be implemented– Researched.
- Cold wallet functionality for bitcoin and Ethereum.

Challenges

The mountains we overcame

- Anti-Money Laundering checks
- Wallet security
- Bringing down different blockchains to a single platform
- Working with NFTs

Time for the Q&A session