

# TMA WEB3 CENTER BROCHURE

Clients from



Web3  
Application  
Development



Setup and  
operate Web3  
resource center



Sustaining  
and feature  
development



Prototype  
and PoC  
development



R&D  
partnership



# Services

01

Develop Smart Contracts & DAPPs for various blockchain

02

Verify Source Code with any deployed Smart Contracts

03

Mint NFTs with Crypto and Fiat to Wallet

04

Integrate with NFT Marketplaces

05

Build a custom NFT Marketplace

06

Create Web3 apps across blockchain networks



# Technologies

LAYER 1 BLOCKCHAINS	LAYER 2s & SIDECHAINS	DEVELOPMENT ENVIRONMENT	FILE STORAGE	INDEXING & QUERYING	ORACLES	OFF CHAIN DATA PROTOCOLS	IDENTITY	CLIENT
ETHEREUM	SOLANA	ZK SYNC	HARDHAT	THE GRAPH	CHAINLINK	CERAMIC	WALLET CONNECT	WEB3.JS
COSMOS	NEAR	STARKNET	TRUFFLE		FLUX	THREAD DB	SOLANA WALLET ADAPTER	ETHERS.JS
POLKADOT	AVALANCHE	POLYGON	FOUNDRY			GUN	.ID CERAMIC SELF ID	ANCHOR
TEZOS	CELO	ARBITRUM	FILECOIN				SPRUCE ID	
FANTOM	AURORA	PALM	SKYNET					
		ANCHOR						



# Case Studies

## Digital Product Trading

### Problems

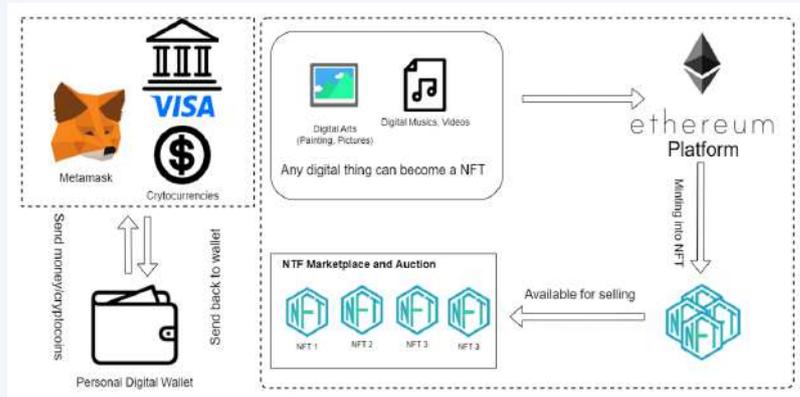
- Traditional payment is not support cryptocurrencies
- Can't tokenize your digital assets
- Don't own personal digital wallet

### Solutions

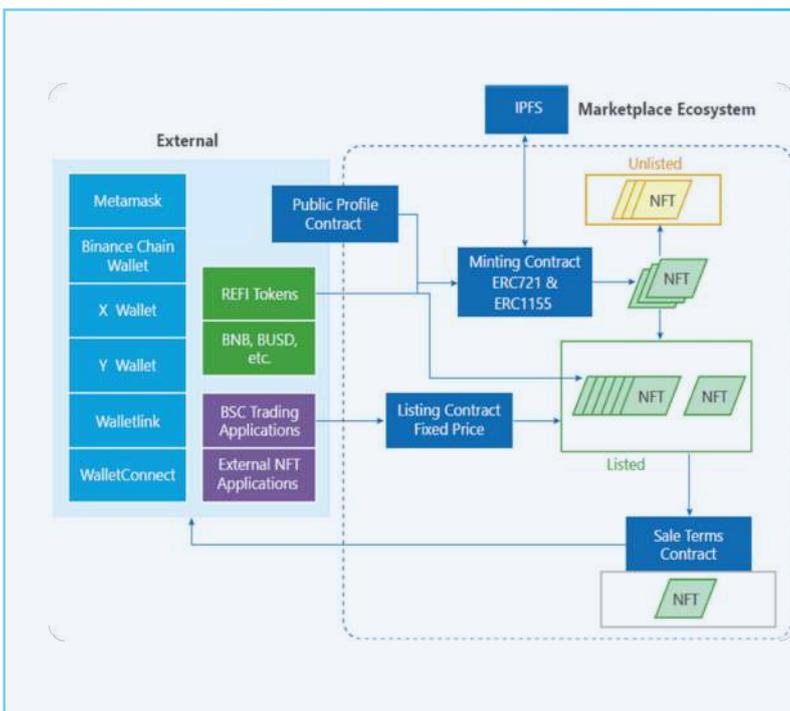
- Introduce cryptocurrency payment
- Turn your products into Digital NFTs
- Create your own digital wallet

### Technologies

- Solidity, Hardhat, Truffle, Ganache
- Ethereum, Bitgo Wallet Platform
- ReactJS
- Flutter (iOS & Android)
- Golang, Microservice
- Docker, Kubernetes



## NFT Trading Platform



### Problems

- Having to write multiple Smart Contracts for multiple tokens types
- ERC-721 not supporting both non-fungible tokens and semi-fungible tokens
- High transaction cost due to multiple transactions

### Solutions

- BEP-1155 based Smart Contracts
- Batch transfers to reduce transaction cost

### Technologies

- Binance Smart Chain, Ethereum
- BEP-721 and BEP-1155 token standards
- Solidity, Web3.js, Ethers.js
- Node.js, Go



# Case Studies

## Letter of Guarantee

### Problems

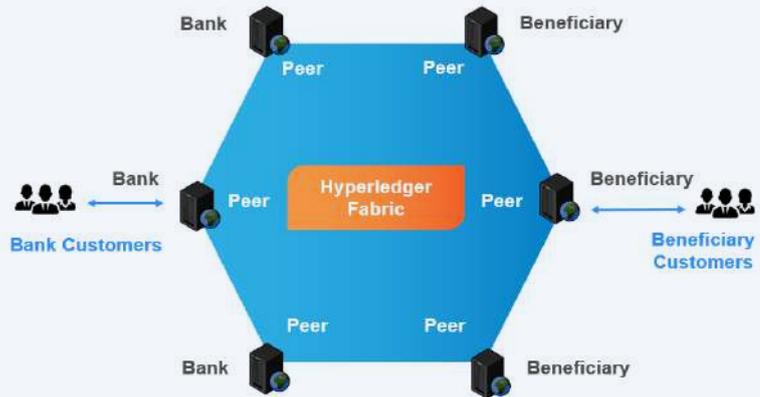
- Additional security in the sale agreement
- The uncertain financial strength of counterpart

### Solutions

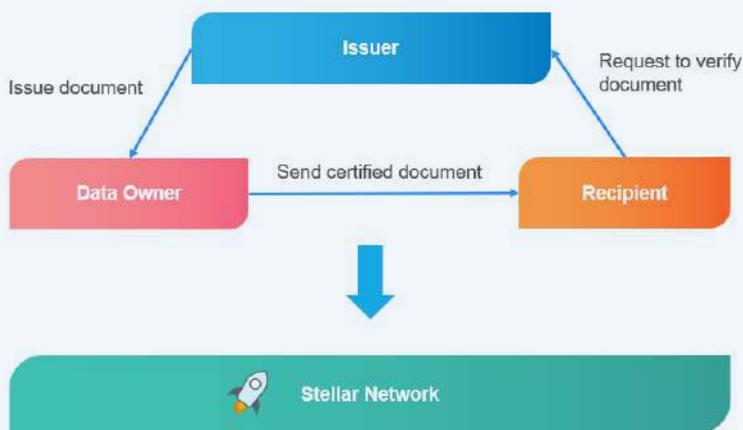
- Issue letter of guarantee
- Blockchain network with 14 banks
- Record all transactions and not altered

### Technologies

- Hyperledger & Stellar
- Angular, React, NodeJS
- iOS & Android
- Golang, Java, Spring boot
- Microservice, Docker, Kubernetes



## eDocuments



### Problems

- Need to certify some personal information
- Or certify a documents

### Solutions

- eDocument platforms using Blockchain
- Documents issued and certified
- Documents verification

### Technologies

- Hyperledger & Stellar
- Angular, React, NodeJS
- iOS & Android
- Golang, Java, Spring boot
- Microservice, Docker, Kubernetes



# Case Studies

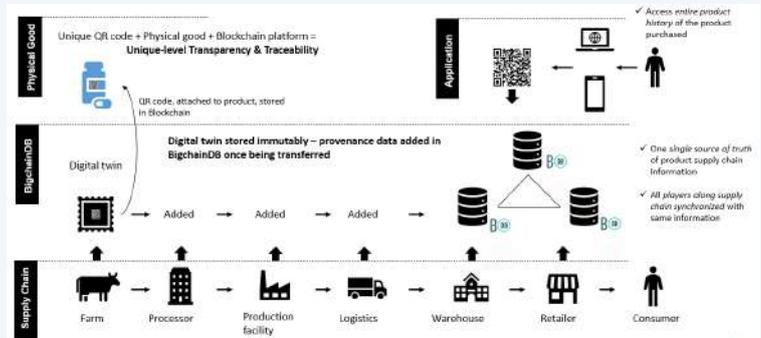
## ScanME

### Problems

- Establishing End-to-End visibility and transparency along the supply chain
- Interacting with end customers at & after the product point of sale
- Preventing product counterfeits

### Solutions

- Blockchain platform enables product transparency, allows brand protection and fraud detection
- QR code into existing labelling method
- Enable 1 on 1 consumer engagement at the point of sales and post-purchase
- Alerts on product counterfeits
- Reports for business intelligence
- Web portal, mobile apps for consumers and inspectors to perform product authenticity, traceability information, and customer engagement



### Technologies

- Flutter, React
- NodeJS, Bigchain DB
- Docker, Kubernetes

## Branded Card Issuing Solution



### A system to issue branded prepaid cards, support plastic cards, and virtual cards.

- Build the card management portal
- Build the mobile application to allow customers to activate, view, and track transactions
- Build API to allow advanced integrations with other parties
- Identify testing scenarios, create test plans and test cases

### Technologies & Tools

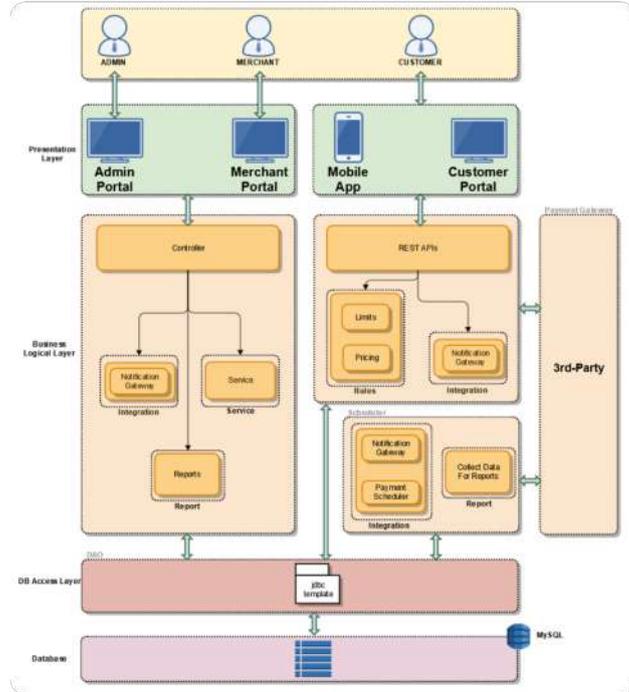
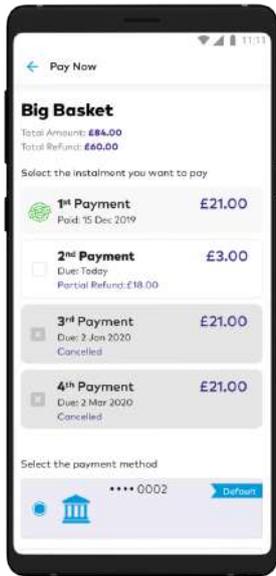
- Gitlab, JIRA, CI/CD, Unit Test, Integration Test
- React Native
- C#, Java, Spring Framework
- AWS services





# Case Studies

## Buy Now and Pay Later



**A system allows the customers to pay later in 4 equal monthly instalments**

- Build the Administrator and Merchant web portal
- Build mobile and web application for customers
- Build API to allow merchant integrations
- Build Magento and WooCommerce plugins to integrate with Merchant's e-commerce websites
- Identify testing scenarios, create test plans and test cases

**Technologies & Tools**

- Gitlab, JIRA, CI/CD, Docker
- React Native
- Java, Spring Framework
- AWS services



# Contacts

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