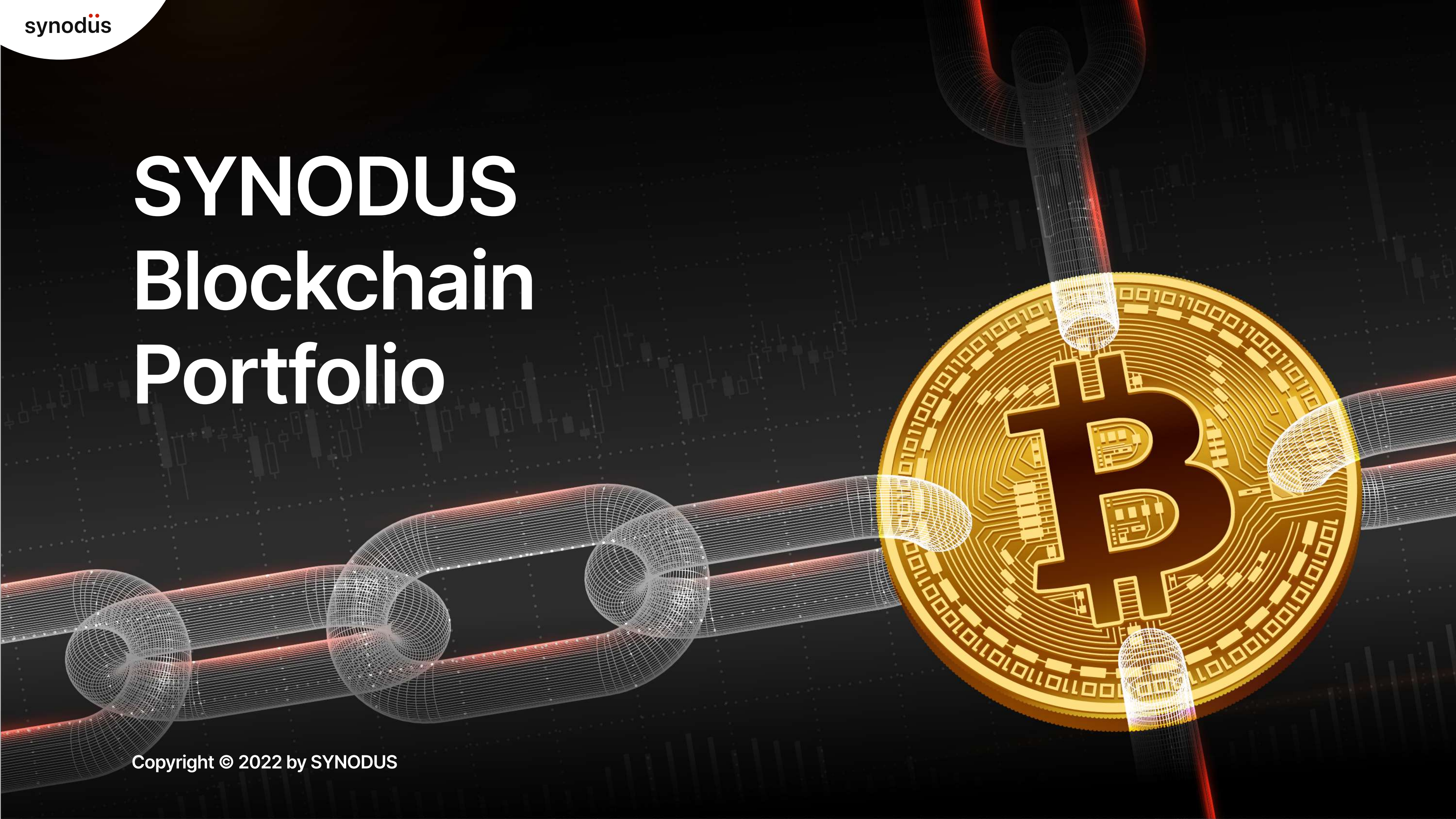


# SYNODUS Blockchain Portfolio



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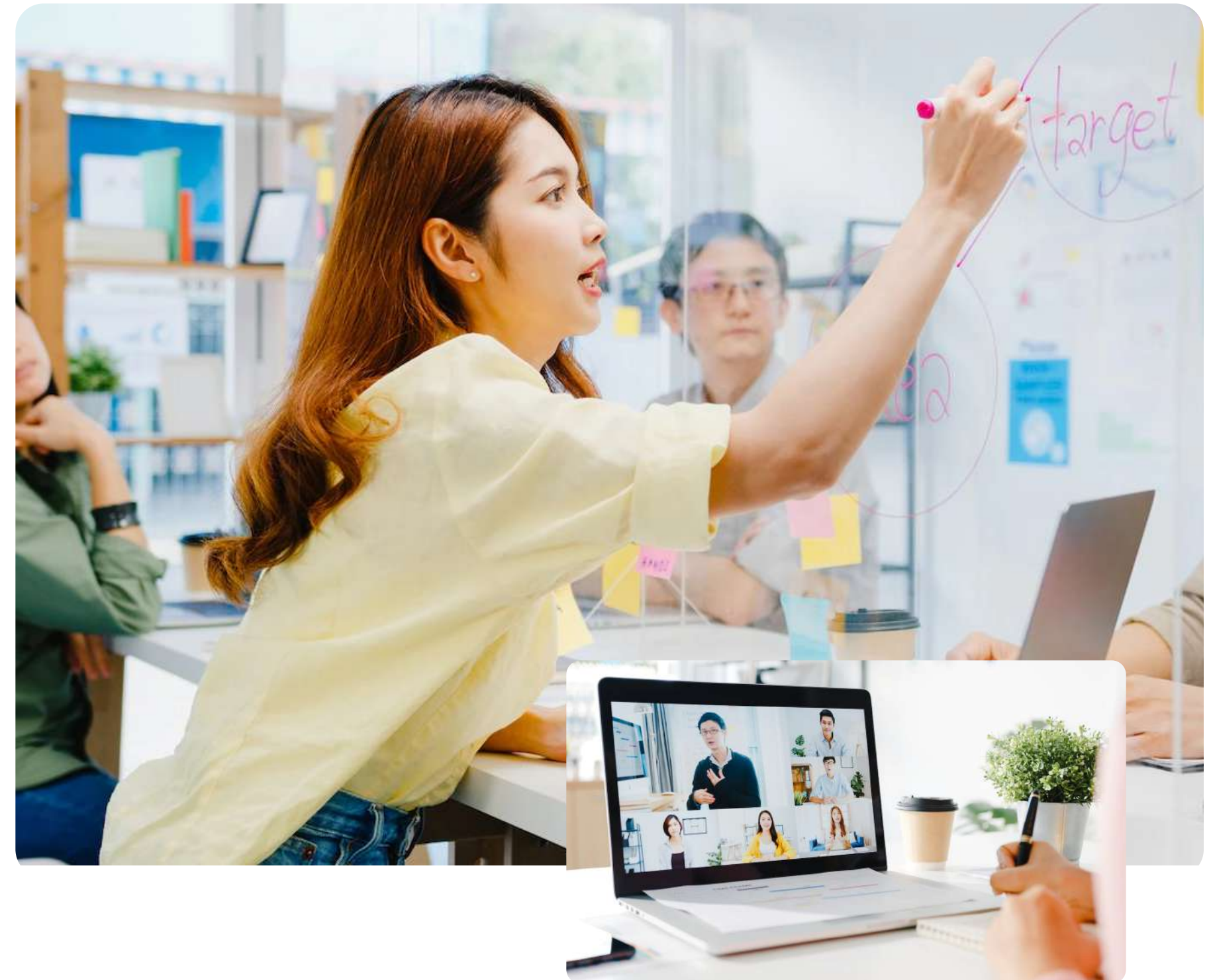
- **Who we are**

**Building Tomorrow Today.**

**Synodus is derived from “Synergy”.**

**Let’s work together to achieve greater.**

Synodus is the pioneering software development company in Blockchain, AI, IoT, and Big Data. If you’re looking for an end-to-end blockchain development partner, you’ve found the right one in Synodus. We provide blockchain development services across the spectrum from personal projects to large enterprise solutions that demand performance, security, scalability, and more. With a strong foundation in building Defi products, Metaverse/ gaming ecosystems and a wide range of enterprise blockchain d-apps from scratch, we’re confident that we can make you the next big thing in Web3.



03+

Years of Experience

310+

Team Members

100+

Portfolio Projects



Based in Hanoi, Vietnam

Microsoft  
Partner

Gold Data Analytics

- **Our mission & vision**

**Our Mission** is creating an environment where we can nurture aspiring human beings to become exceptional technology professionals. And in turn serve our global partners with the highest level of development, advice and service.

Our Vision is to deliver the most delightful products and services that help our users to a higher level of performance.





# • Our blockchain services



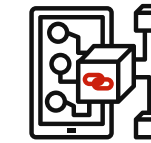
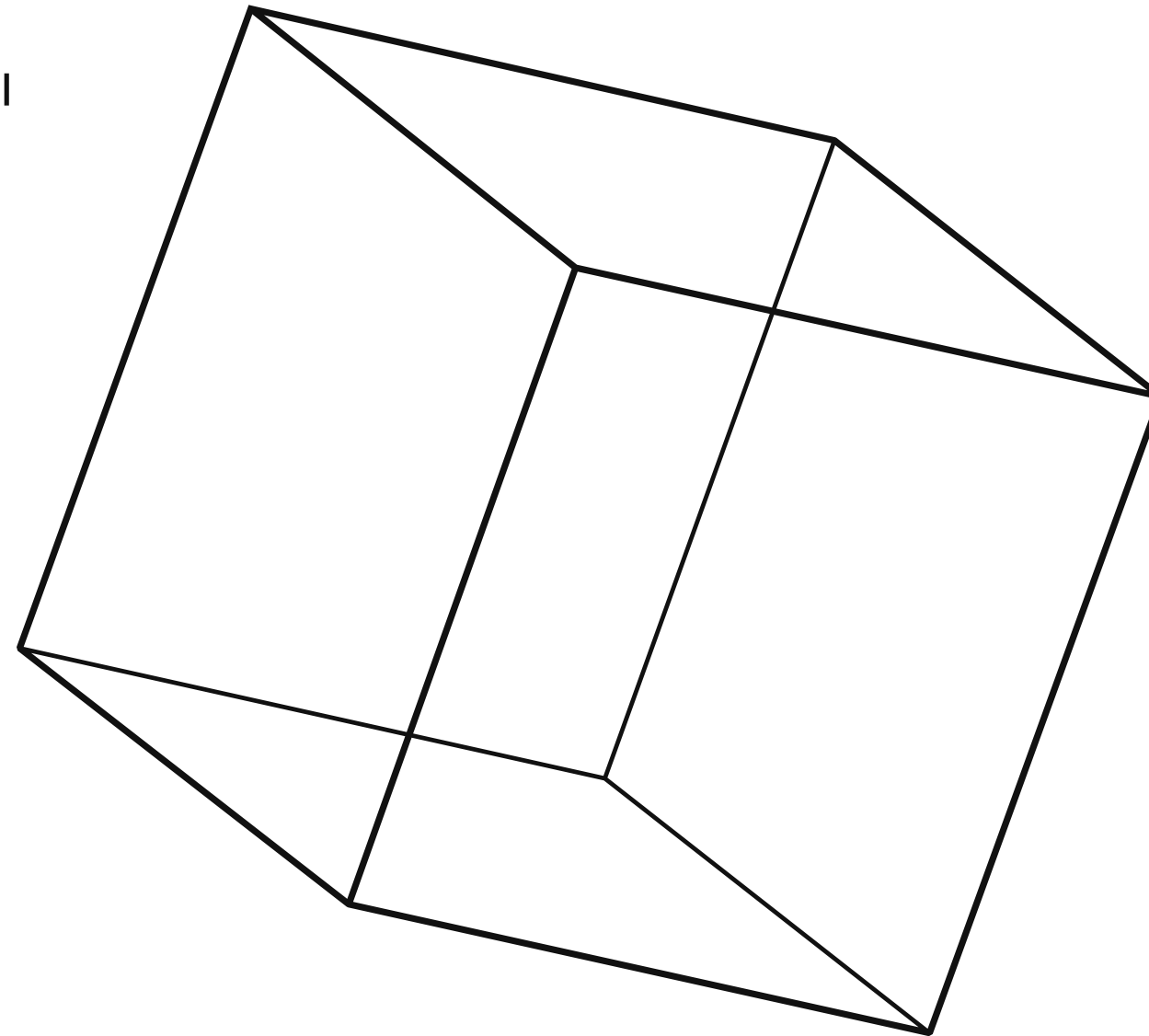
Blockchain Professional Services & Advisory



Non-Fungible Tokens (NFT) & Games Development



Cryptocurrency Wallet & Exchange Development



Decentralized Application (DApp) Development



ICO, IDO & STO



Smart Contract Development & Audit

## • Our capabilities

### Public blockchain

Ethereum  
Parity  
Tezos  
Stellar  
Tron  
Polkadot  
NXT  
Binance Smart Chain  
NEAR  
Cosmos

### Private blockchain

Corda  
OpenChain  
Stellar  
Monero

### Permissioned blockchain

Hyperledger Fabric  
Multichain  
EOS  
Ripple  
Quorum  
IBM Blockchain Platform  
Hyperledger Sawtooth  
Neo Blockchain Platform  
Hedera Hashgraph  
Hyperledger Iroha

Hyperledger Indy  
Exonum  
AKA Chain  
Oracle Autonomous  
Blockchain Cloud Service  
Azure Blockchain Workbench  
Amazon Managed Blockchain  
Google Cloud Platform

# • Our compliances

Trust is Earned Through Accreditations



SOC 2 Type I & Type II



ISO 27001



AML/KYC



AML/KYC



HIPAA



FISMA



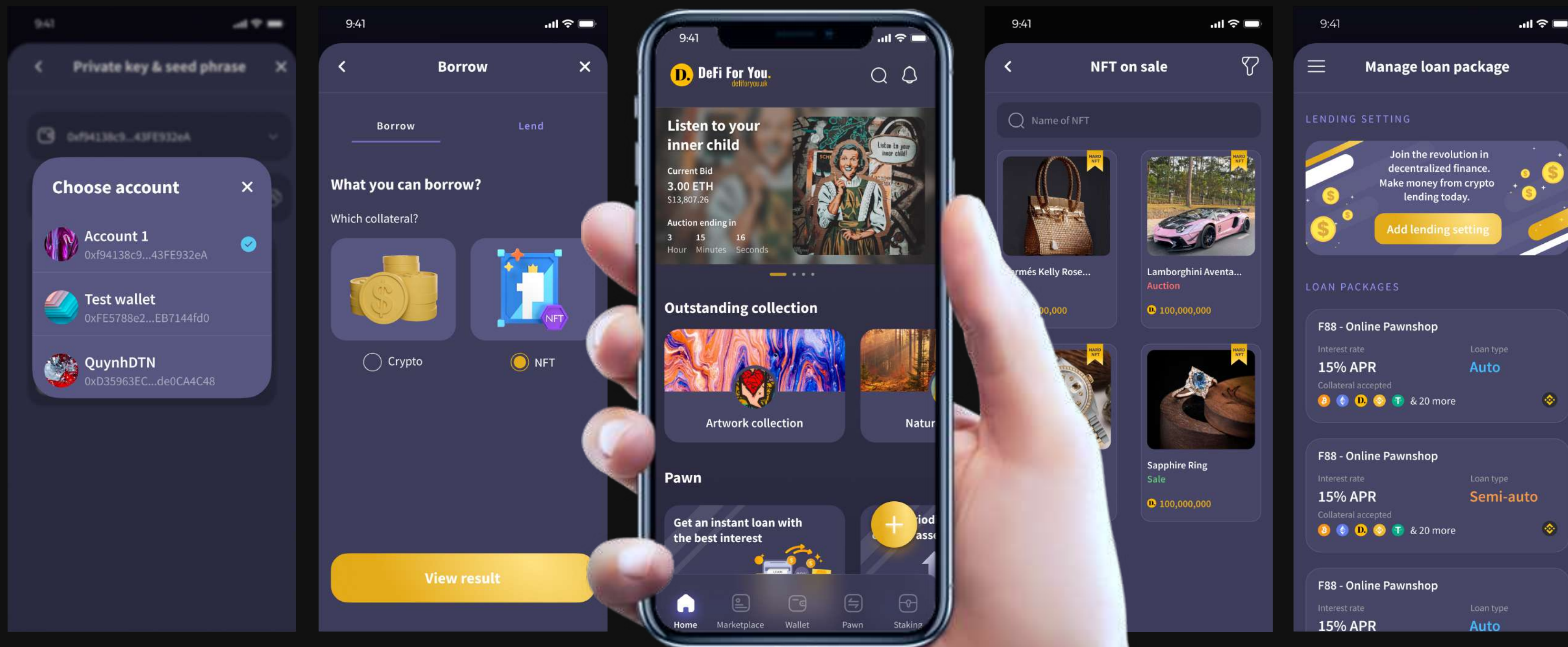
PCI DSS



PSD2

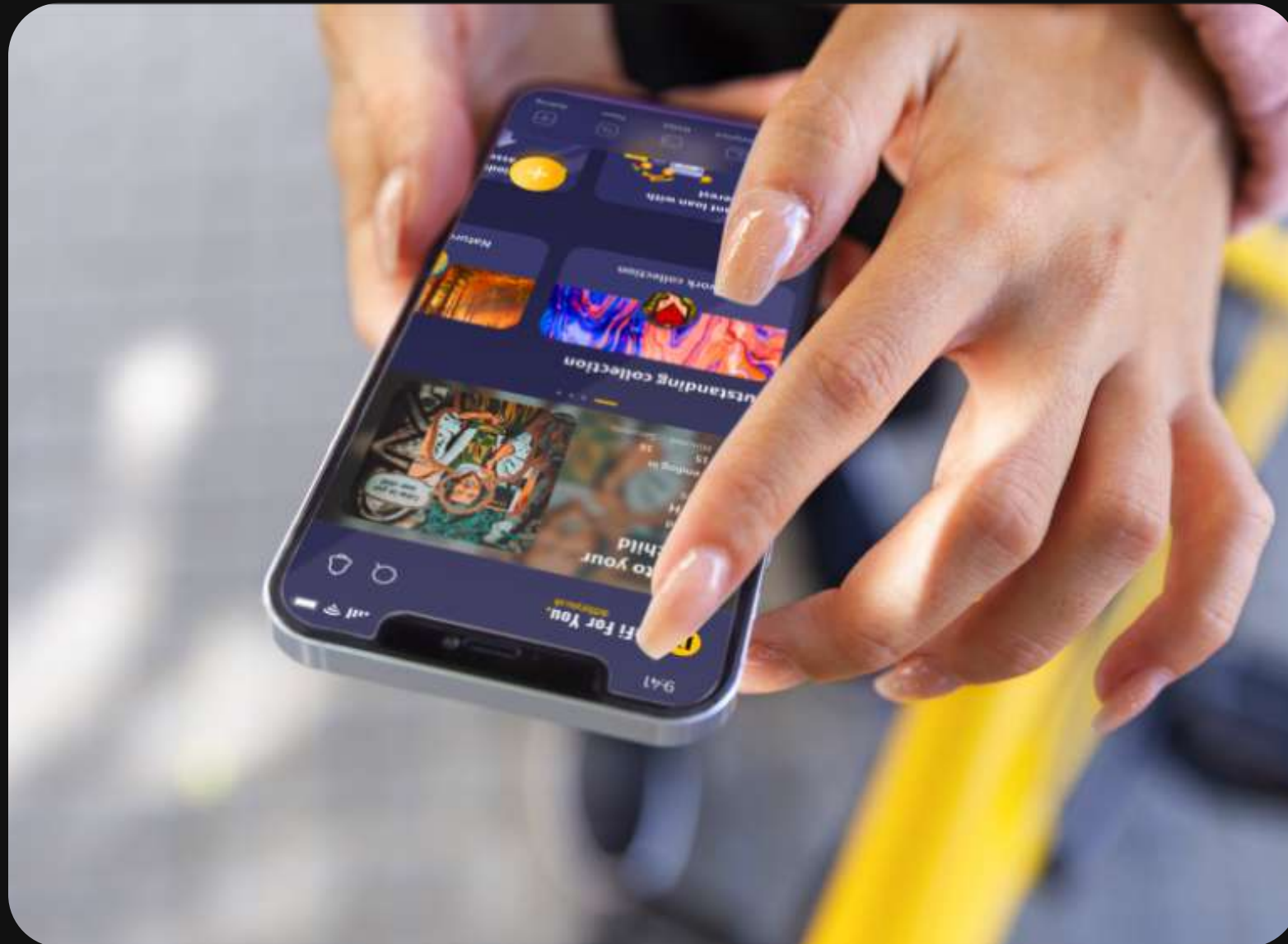


# • Our Portfolio



## What is Defi For You?

A peer-to-peer (P2P) lending platform to Finance Digital and Physical Assets without credit check requirements



### Peer-to-Peer Loans

Users borrow and lend amongst each other

---

### Lending from Liquidity Pool

Stake crypto and earn interest or borrow immediately at fixed interest rates

---

### Soft (Digital) NFT Market

Tokenize soft assets as NFTs to trade and borrow

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### Hard (Physical) Asset NFT Market

Tokenize hard assets as NFTs and store them with ecosystem partners to receive crypto loans

## Scope of work

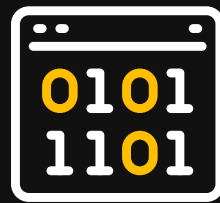
- 01** Issue traditional NFTs and Physical Asset-based NFTs
- 02** Facilitate NFT transactions & negotiations on the marketplace
- 03** Enforce repayment or penalty for late payment
- 04** Connect lenders with borrowers to issue crypto loans against digital or physical assets
- 05** Built-in crypto wallet for secure and seamless transactions
- 06** Integrated with third-party services, including gnosis safe - multisig wallet, moralis, chainlink, coingecko, and paicake
- 07** Certik audited & Certified

# Required technology



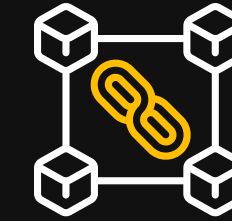
## Infrastructure

AWS, Kubernetes, Jenkins, GitLab, ASS, Prometheus



## Back-end

AWS, Kubernetes, Jenkins, GitLab, ASS, Prometheus



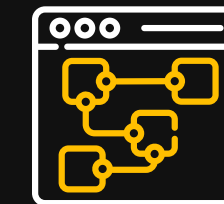
## Blockchain

Solidity, Binance Smart Chain, NodeJS, IPFS, Hardhat, Gnosis Safe Multisig, Moralis



## Mobile

Flutter



## Front-end

ReactJS, Typescript



## Challenge & Solution



### Challenge #1: Performance

The NFT platform must scale and execute smart contracts with speed and ease to accommodate fluctuations and growth in trading volumes



Solution: Developed in-house scan solutions from scratch to handle smart contract executions in batch



### Challenge #2: Automation

To ensure the security and validity of every transaction, automation is needed to generate transactions and process loan contracts & repayments on the blockchain



Solution: Implemented AWS KMS with encryption mechanism to store and encrypt Private key to verify the validity of actions on the smart contract

- Our Portfolio



## What is Cyberium?

A Metaverse World with 7 cities featuring its own esports game

### Unparalleled Gaming Experience

Users seamlessly switch between games by walking through the metaverse

### In-Game Marketplace

Buy, sell, and auction NFTs using \$BREAK for skins, cues, gacha boxes, crafting items, custom materials, and more



## Scope of work

**01** Hosting entertaining E-Sports games across locations

**02** Facilitating NFT transactions & negotiations on the marketplace

**03** Collecting market fees for the listing of each successful sale

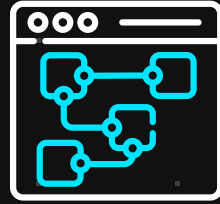
**04** Connect lenders with borrowers to issue crypto loans against digital or physical assets

**05** Verifying wallet balance to participate in the marketplace

**06** Organizing mystery box sale events with in-game NFTs for personal consumption or direct trading

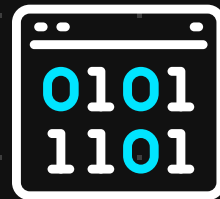


## Required technology



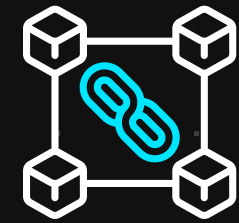
### Front-end

ReactJS, Typescript



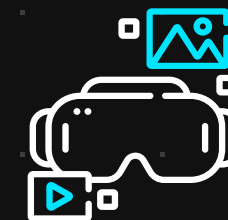
### Back-end

PostgreSQL, MongoDB, Java  
Spring Boot, Spring WebFlux,  
Piñata, Redis, Kafka



### Blockchain

Solidity, Binance Smart Chain,  
NodeJS, IPFS, Hardhat, Gnosis  
Safe Multisig, Moralis



### Infrastructure

AWS, Kubernetes, Jenkins,  
GitLab, ASS, Prometheus

## Challenge & Solution

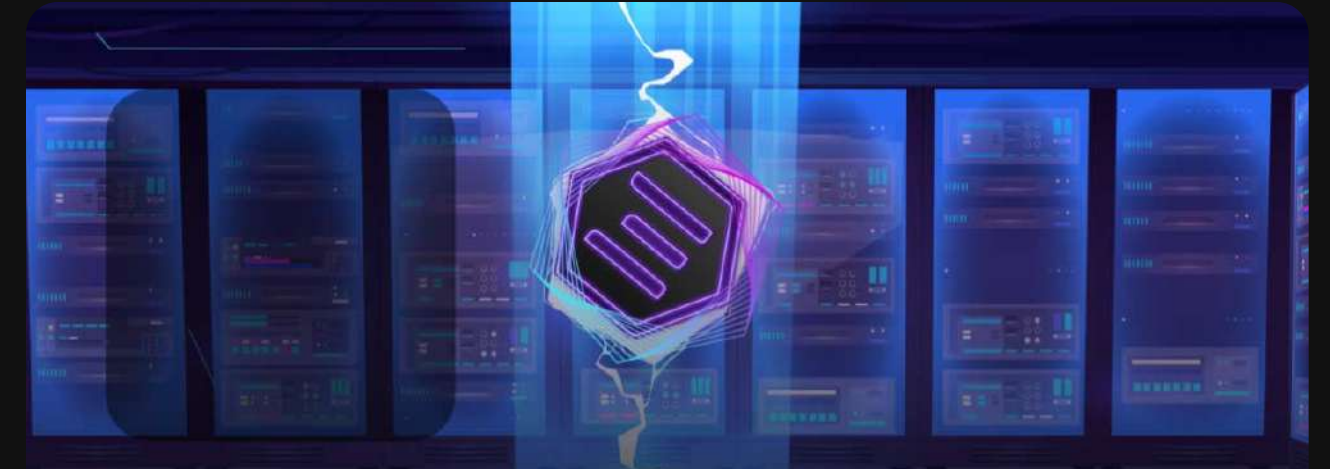
During the development stage, we had to cope with challenges regarding performance, consistency and security. Our team of competent developers strived to overcome the challenges with the following solutions.



**Gacha events require huge amounts of data being submitted and processed**



**Solution:** Developed an in-house solution from scratch to handle data submission in batch and failback solution to retry and send alerts



**The management of centralized activity related to in-game tokens must be verified and validated to ensure accurate deposits, transactions, and withdrawals**



**Solution:** Token deposits and withdrawals are managed using smart contracts with withdrawal requests being validated against the transaction. In-game activities involving tokens will be logged as a virtual transaction for traceability purposes



**Gacha boxes when opened must contain the same data as it was initially setup with accurate permissions as dictated by the owner**



**Solution:** Verify access to Gacha boxes by matching users' unique signature on smart contracts with transactional data and storing both the original and unboxing data hash

- **Our Portfolio**

## What is Realchainz?

An integrated, blockchain - Empowered real estate investment platform

STO & Launchpad for Real Estate Properties

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Investment Marketplace between Investors & Real Estate Owners

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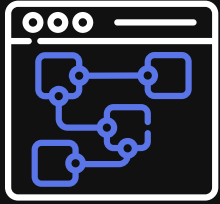
Democratized Real Estate Investments



## Scope of work

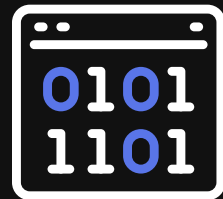
- 01** Design Project's Tokenomics
- 02** Convert Real Estate into Liquid Assets
- 03** Convert Real Estate Tokens to NFT for Proof of Ownership
- 04** Stake Real Estate Tokens for Interest
- 05** Hold NFT and Generate Revenue from Property Operations
- 06** Developers Receive Funds to Develop Projects
- 07** Develop Digital Asset Exchange to enhance secondary market liquidity

## Required technology



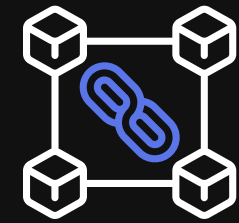
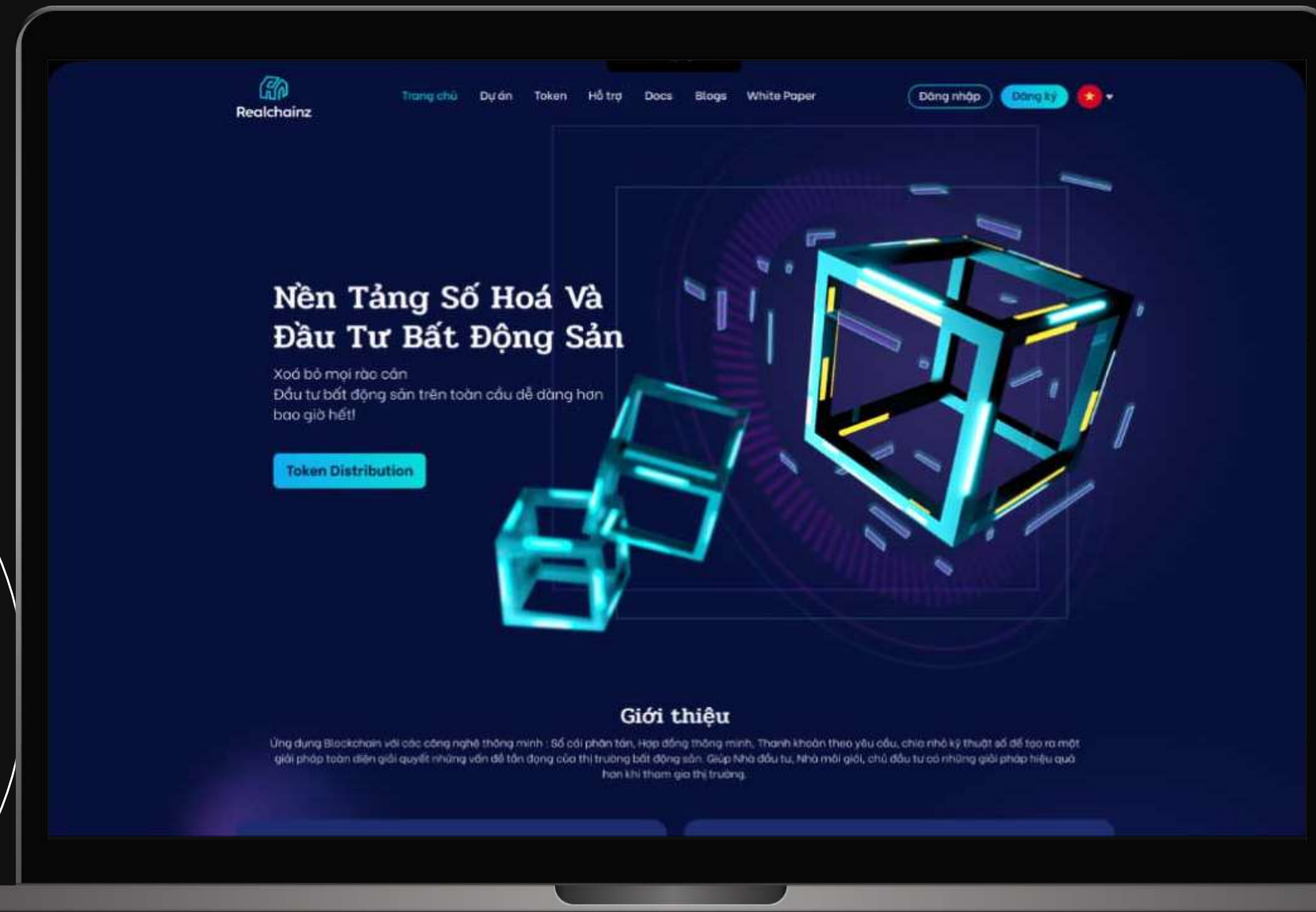
### Front-end

ReactJS, Typescript



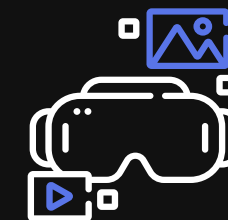
### Back-end

PostgreSQL, MongoDB, Java  
Spring Boot, Spring WebFlux,  
Piñata, Redis, Kafka



### Blockchain

Solidity, Binance Smart Chain,  
NodeJS, IPFS, Hardhat, Gnosis  
Safe Multisig, Moralis



### Infrastructure

AWS, Kubernetes, Jenkins,  
GitLab, ASS, Prometheus



# • Our Portfolio

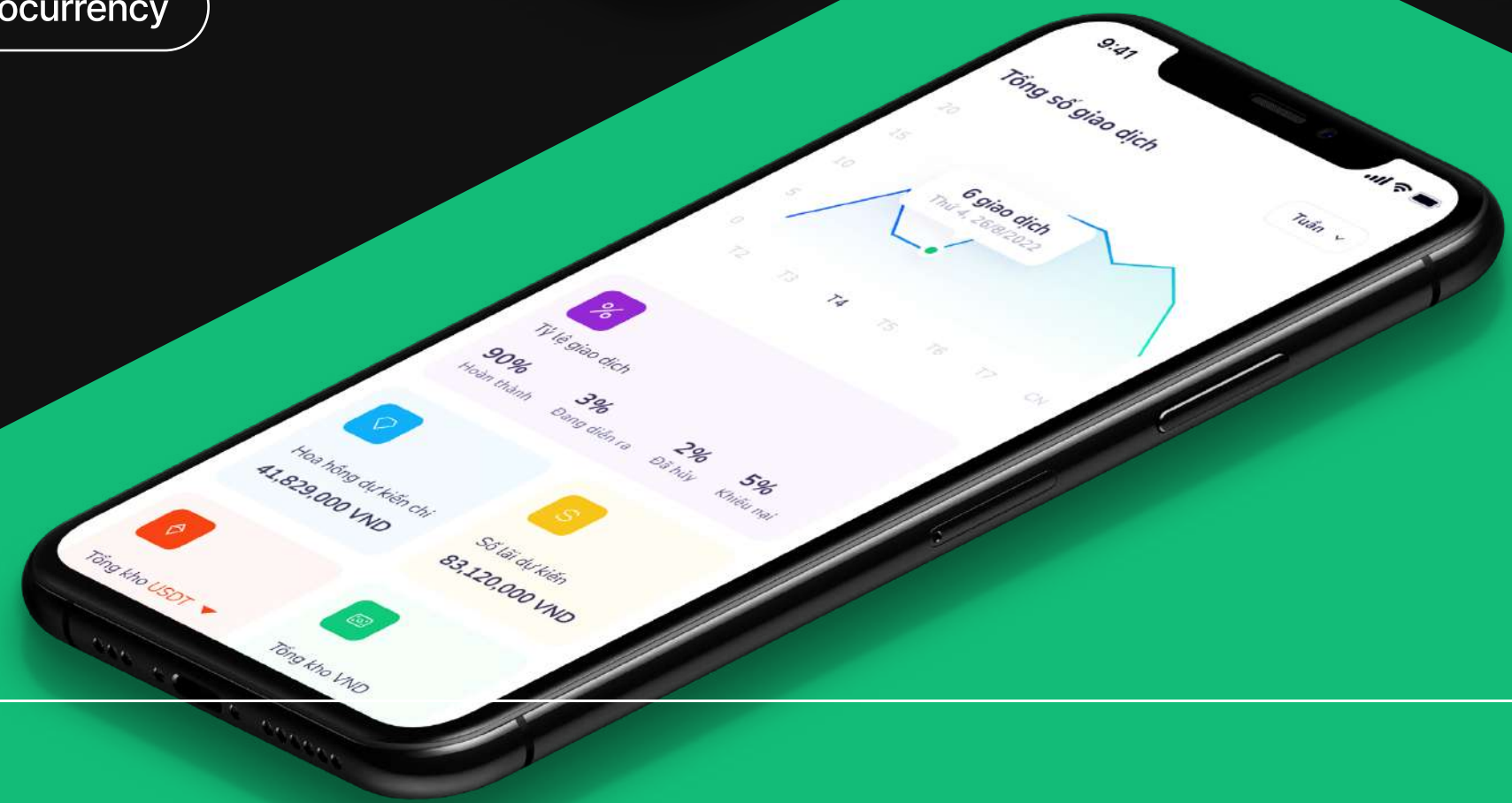
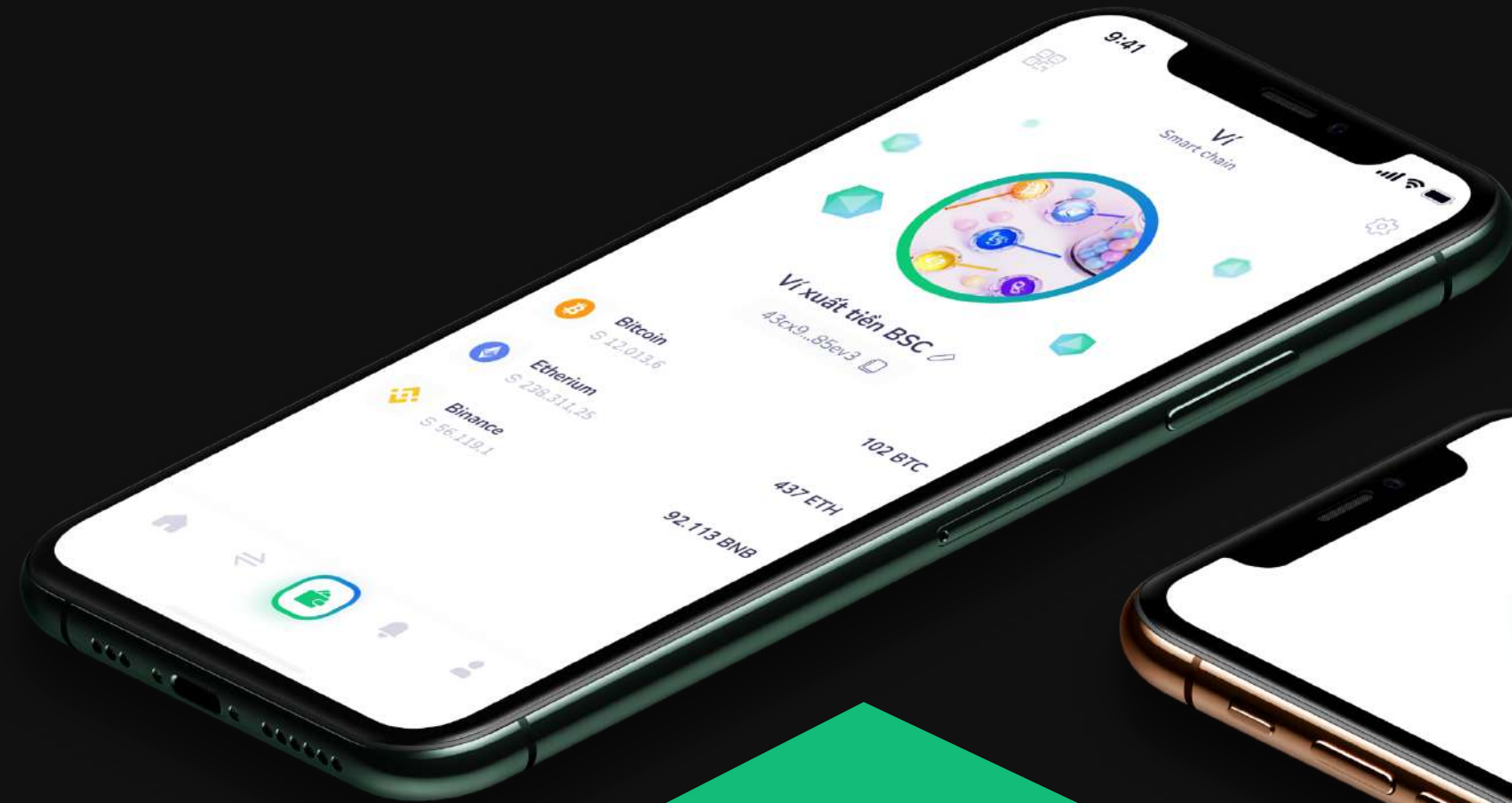
## Industry

Finance

## Technologies

Blockchain

Cryptocurrency



## What is Vuacoin?

Platform for recording, statistics, and reporting of trading activities of a crypto dealer

The Crypto trading market has a great potential, there are many bookies (agents) making a profit from buying and selling that Crypto with a large trading volume (~ million USD).

To be a management platform that allows dealers specializing in coin transaction to manage daily operations from exchanging, buying/selling, debiting cryptocurrency. The ultimate goal is to form a cryptocurrency exchange trading platform that competes with other exchanges such as: Remitano, binance...

These agents operate with many large financial transactions but are executing and managing manually, they do not have the right tools -> **Losing money and requiring a lot of effort to check and reconcile data.**



# Challenges & Solution

## Technical Challenges

Scan service on multichain (BSC, Polygon, Tron) to scan all related events to retrieve necessary data from different blockchain

---

Apply Hashicorp Vault to store private key and sign the transaction securely

## Key features

- Transaction management
- Agent & Employee management
- Asset management
- Dashboard & Report

## How the product operates

- ✔ Sales create transaction
- ✔ Accountant recognize payment for transaction
- ✔ Manager view the report
- ✔ Accountant reconcile data and pay the commission for sales

## Tech stacks

### Front-End

React JS, TypeScript, Ant design pro

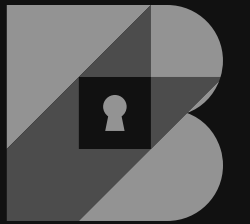
### Back-End

Java Spring boot, Spring WebFlux, Redis, Kafka message queue, Postgre SQL, Mongo DB

### Blockchain

Binance smart chain, Tron, Polygon





## • Our Portfolio

9:41

←

**Secure your account without  
risking with passphrase**




...

Can't get familiar with securing your crypto wallet by non-related words. We offer you a highly-secured one that can be recovered by your email/phone number.

9:41

←

**You only need one super dApp!**




...

Get tired to install a bunch of blockchain apps. You only need us to swap assets, purchase NFTs or make instant trade easily!

9:41

←

**Grow asset incredibly  
and stably!**



...

Find your suitable products and raise your asset immediately!

## What is Banca?

Objective: Building 2 digital banks

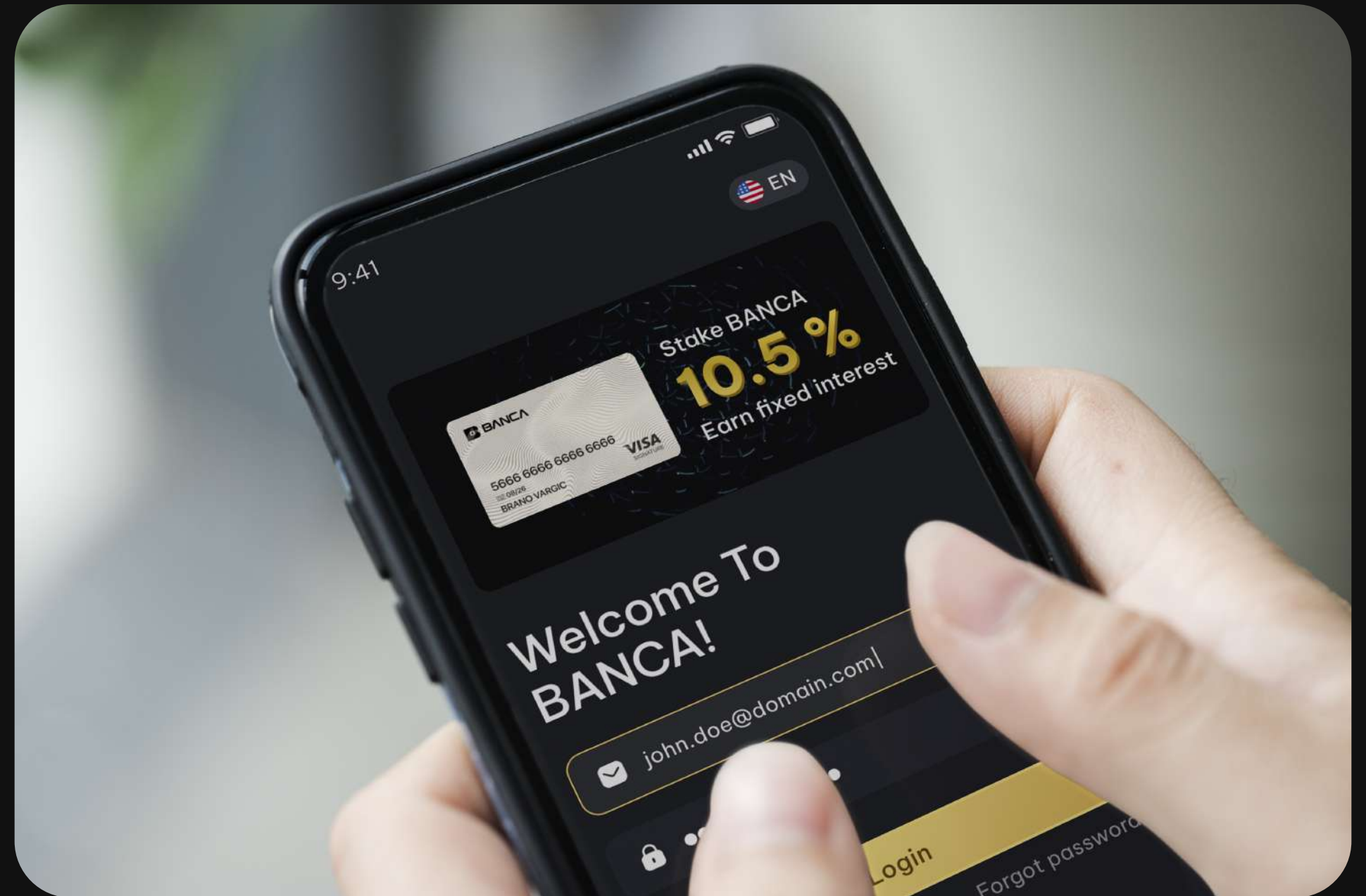
### Banca Bank

Central Bank issues Banca Currency, operated by DAO

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### Banca Digital Bank

Private Bank provides banking services for High Networth Customers, based on Banca Currency, Owned and Governance by Banca Bank



# Challenges & Solution

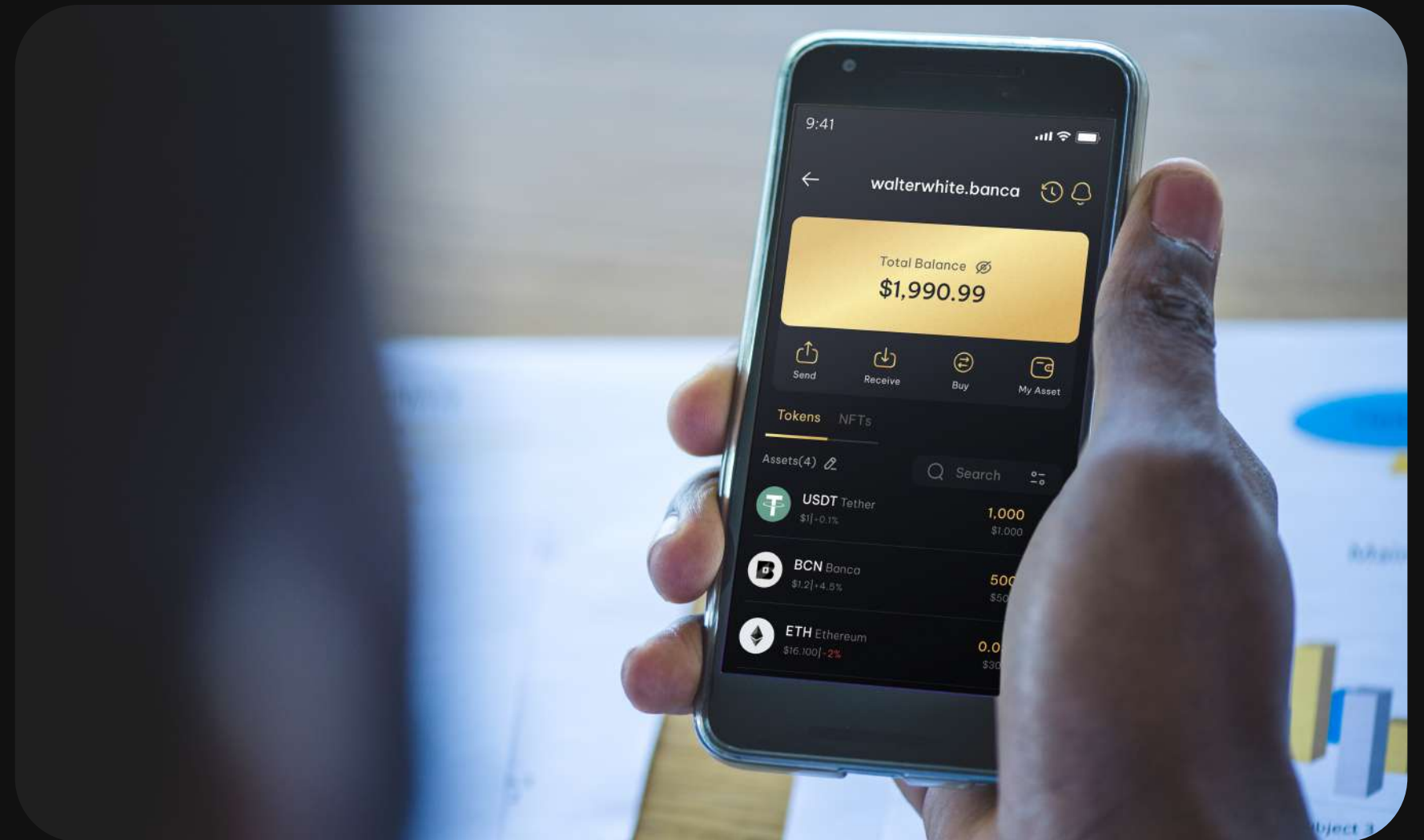
Seamless integration with blockchain networks, secure transaction and blockchain wallets by industry standard applied

## Key features

- CASA Account (Deposit, Send, Buy crypto currencies)
- Saving Account
- Secure Lending
- Payment using IDC/ICC
- Concierge Service

## Tech stacks

Microservices, Mifos X, NodeJS, ReactJS, ReactNative, Solidity, Integrate with Networks (Bitcoin, Polygon, Tron,..), Custom build ZKSync chain



## • Our Pricing

### OUTSOURCING MODELS



#### Fixed Cost Project

Best suited for projects with a clear scope



#### Time + Materials

Best suited for projects with a clear scope



#### Dedicated Team

Best suited for projects with on-going requirements

### FLEXIBLE PRICING



#### Deferred Payment

Pay half the cost of development upfront and pay us the rest only when the project has generated value for you



#### Equity Payment

Pay for the cost of development at a significant discount and we'll take the rest in percentage of the project or equity in the company

## • Our Development Process

### Discover + Explore

- Project Overview
- High-Level Requirements
- Technology Implementation Recommendations

### Architect + Design

- Technical Architecture
- High Fidelity Prototype

### Propose + Strategize

- Project Plan
- Development Proposal / SOW
- Wireframes

### Development

- Product Ready for Deployment
- Release Plan
- Whitepaper

**Launch + Success**

- Product Launch in Production Environment
- Support & Maintenance

**Maintain + Iterate**

- Support & Maintenance
- SLA Contract
- Dedicated or Extended Team Proposal

**Thank you!**  
**We're excited to have**  
**you as our new partners**

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