



Astana IT University



REAL ESTATE TOKENIZATION

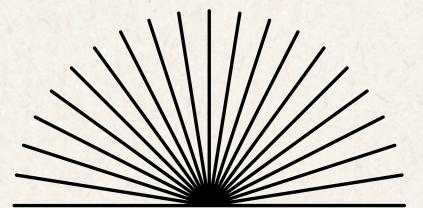
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PRESENTED BY:

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Galymzhan Turemuratov

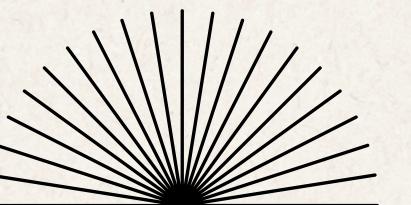
SUBJECT:

Blockchain Technologies



- 01 Creating a decentralised application (DApp) that allows the value of real estate to be divided into small digital shares (tokens).
For that, investment accessible to ordinary people, not just big players.

Project Essence

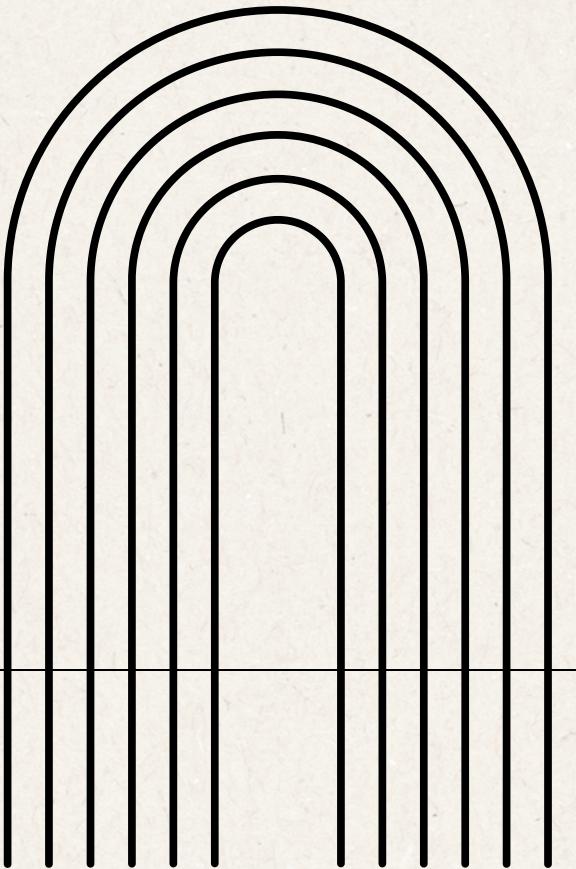


Goals

Using tech stacks like solidity, ethers.js and metamask to create a transparent, accessible, and automated crowdfunding platform where physical assets are represented by digital ERC-20 tokens.

But, why?

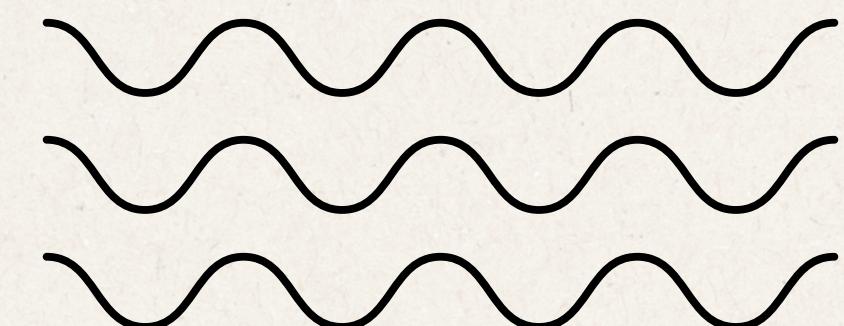
Traditional real estate requires high capital, involves heavy paperwork. By that, we are made this type of solving problem



Smart Contract Logic

Crowdfunding.sol: Manages the fundraising logic, stores investor balances, and transfers money to the property owner when the goal is reached..

- RealEstateToken.sol (ERC-20): Our fungible (interchangeable) reward token. Investors receive it in exchange for their investments.
- PropertyNFT.sol (ERC-721): A non-fungible token representing the ownership right to the property itself.



Security integrations & Connects

Wallet Connection:
Securely requests user permissions.

Transaction Flow:

- 1. User triggers action
- 2. MetaMask popup
- 3. User signs
- 4. Blockchain confirms.

BETA Version

The screenshot shows a user interface for a blockchain-based real estate tokenization platform. At the top, there's a navigation bar with "ESTATE TOKEN" on the left, a "DISCONNECTED" status indicator, a "No Wallet Connected" message, and a "CONNECT WALLET" button on the right. Below this is a large dark blue header section containing the text "Fractional Real Estate Ownership" and a subtext: "Invest in premium properties through blockchain tokenization. Own a piece of real estate with as little as 0.01 ETH." Underneath the header, there are four summary statistics: "TOTAL PROPERTIES" (0), "TOTAL VALUE LOCKED" (0.00 ETH), "YOUR TOKENS" (0.00), and "ACTIVE LISTINGS" (0). At the bottom of the main content area, there are three navigation links: "MARKETPLACE" (underlined in yellow), "LIST PROPERTY", and "MY PORTFOLIO".

ESTATE TOKEN

DISCONNECTED

No Wallet Connected

CONNECT WALLET

Fractional Real Estate Ownership

Invest in premium properties through blockchain tokenization. Own a piece of real estate with as little as 0.01 ETH.

TOTAL PROPERTIES
0

TOTAL VALUE LOCKED
0.00 ETH

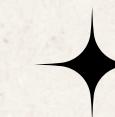
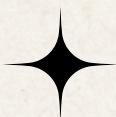
YOUR TOKENS
0.00

ACTIVE LISTINGS
0

MARKETPLACE

LIST PROPERTY

MY PORTFOLIO



Conclusion



OUR REAL ESTATE TOKENIZATION PROJECT SUCCESSFULLY BRIDGES THE GAP BETWEEN TRADITIONAL ASSET MANAGEMENT AND DECENTRALIZED FINANCE (DEFI)

PROJECT DEMONSTRATES THAT THE COMPLEXITIES OF REAL ESTATE—LIQUIDITY, HIGH ENTRY BARRIERS, AND SLOW SETTLEMENT—CAN BE MITIGATED THROUGH SMART CONTRACT AUTOMATION.

**Thank
you!**