



RentFi



*The immutable and transparent solution for
residential property leases.*



Team

Our Team



RentFi

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Decentralized Asset Rental

Problems Addressed

01
Increased Transparency Between Parties

There are no intermediaries. Agreements are automatically executed when certain qualifications are met.

02
Property Owners Cannot Price Gauge

Lessors are protected from unfair pricing by the use of public contracts.

03
Information Updated in Real Time

All parties have access to property value, damages, and maintenance information.

Our Solution



Lease Trade Marketplace

Our main trade will allow users to trade their contracts with others enabling rent flexibility.



FLEXIBILITY



TRADE



MARKET

Smart Contracts

All of our leased properties will be held up by a smart contract. Depending on the property type the contract will be different



MANSION



CONDO



HOUSE



Audience

Use Cases

We aim to target the renters and owners with our decentralized property rental platform:

- 01 Transparent Rental Agreements
- 02 Decentralized Marketplace for High-Value Asset Rentals
- 03 Dynamic Lease Management and Tokenization

System Architecture Overview



Off-Chain

WEB APPLICATION

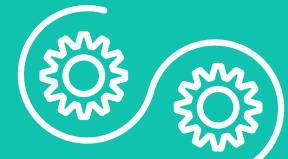


LEASE CREATION &
SIGNING



LEASE TRADING

GITHUB + VERCEL



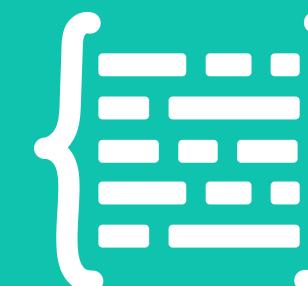
CI/CD



HOSTING

On-Chain

MIS BLOCKCHAIN



LEASEAGREEMENT
FACTORY.SOL



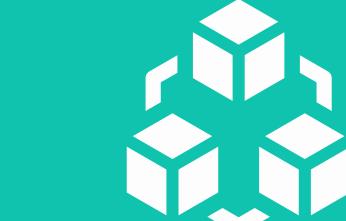
LEASEAGREEMENT.SOL



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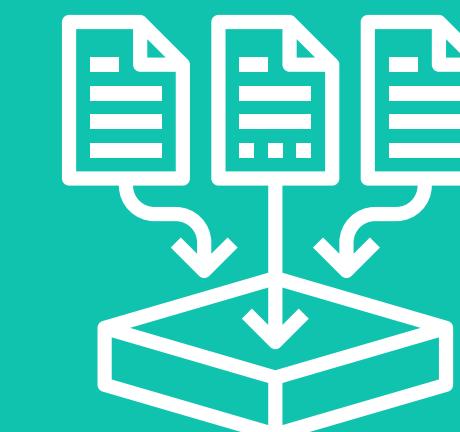


LEASEAGREEMENT.SOL



PROPERTY REGISTRY
ERCNFT COLLECTION

INTERPLANETARY FILE SYSTEM (IPFS)



PROPERTY/PLATFORM
METADATA

Frontend Development Tools



NEXT.JS

App Library and Pages

Landing pages for user registration, owner registration, asset listing and lease availability

REACT.JS

Framework and Document Control

Document flow for control between pages and backend APIs

VERCEL

Template Design

Marketplace template and design elements with bootstrap integration

Website

Tentative Web Design



The image displays two screenshots of a web application interface, likely a landing page or sign-up flow for "RentFi".

Screenshot 1 (Top): This screenshot shows the initial user selection screen. At the top, there is a navigation bar with a menu icon, the RentFi logo, and a lock icon. Below the logo, the text "Which type of user are you?" is centered. Two rectangular buttons are present: "Asset Owner" on the left and "Tenant" on the right, both outlined in teal.

Screenshot 2 (Bottom): This screenshot shows the account setup or wallet connection screen. At the top, there is a navigation bar with a menu icon, the RentFi logo, and a lock icon. Below the logo, the text "We're happy you're here! Let's get started." is displayed. Two items are listed: "Set Up Your Account" with a person icon and "Connect Your Wallet" with a fox head icon.

Website

Tentative Web Design



A white header bar with a three-line menu icon on the left, the RentFi logo in the center, and a lock icon on the right.

Create New Asset Listing

Fill in the forms below to list your property on RentFi.

TEXAS DEED OF TRUST

NOTICE OF CONFIDENTIALITY RIGHTS: IF YOU ARE A NATURAL PERSON, YOU MAY REMOVE OR STRIKE ANY OR ALL OF THE FOLLOWING INFORMATION FROM ANY INSTRUMENT THAT TRANSFERS AN INTEREST IN REAL PROPERTY BEFORE IT IS FILED FOR RECORD IN THE PUBLIC RECORDS: YOUR SOCIAL SECURITY NUMBER OR YOUR DRIVER'S LICENSE NUMBER.

A search results page showing three property listings. Each listing includes a thumbnail image, the address, an owner rating, and a "VIEW DETAILS" button.

1 ~ 6 of over 100 results

A thumbnail image of a modern white house with a gabled roof and multiple windows.

4578 Gallant Fox Trail

★★★★★ Owner Rating

624 MIS/ MO.

VIEW DETAILS

A thumbnail image of a modern brown house with a dark garage door and stone accents.

90560 Stagecoach Road

★★★★★ Owner Rating

512 MIS/ MO.

VIEW DETAILS

A thumbnail image of an old, weathered two-story house with a rusty roof.

2396 Abert Way

★★★★★ Owner Rating

178 MIS/ MO.

VIEW DETAILS

Website

Tentative Web Design



The screenshot displays the RentFi web application interface, showing a dashboard with financial activity, active leases, and navigation options.

My Finances

- March 1 paid 624 MIS to 0x78v3h68c9bx087sah9v8a9n
- Feb 1 paid 624 MIS to 0x78v3h68c9bx087sah9v8a9n
- Jan 1 paid 624 MIS to 0x78v3h68c9bx087sah9v8a9n
- ...

100 MIS

Balance: 100 MIS

Address: 0x7eda4...d0775

Categories: CateDo...

Actions: Buy & Sell, Send, Swap, Bridge, Portfolio

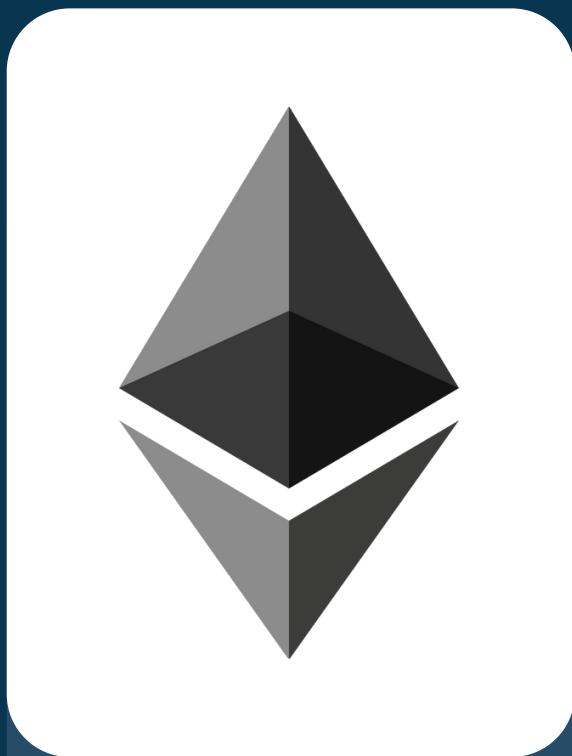
Tokens, NFTs, Activity

My Active Leases

Lease details for 4578 Gallant Fox Trail:

- Thumbnail image of a white, two-story house.
- Address: 4578 Gallant Fox Trail
- Owner Rating: ★★★★☆
- 624 MIS / MO.
- VIEW DETAILS button

Backend Development Tools



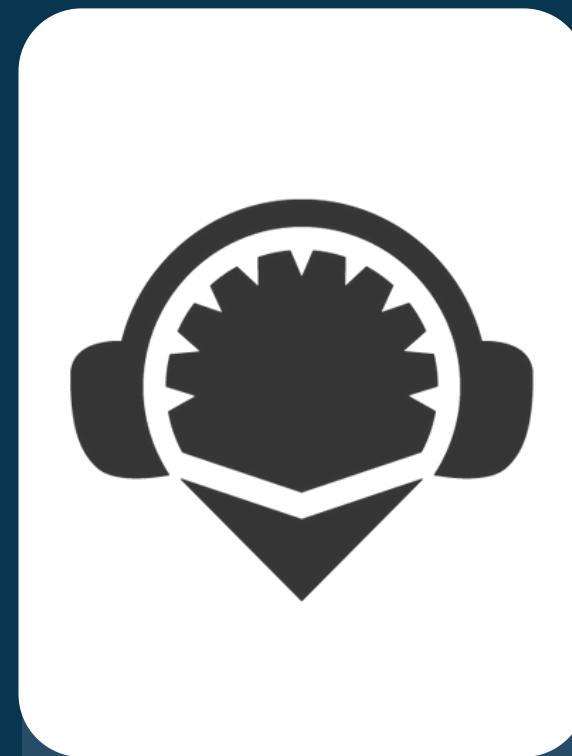
MIS Blockchain

- Custom Platform: Designed specifically for project use.
- Application: Hosts all smart contracts and handles transactions.



Solidity

- Smart Contract Development Using Solidity
- Function: Develops the logic for automated rental agreements and secure transactions.



Remix IDE

- Tool: Browser-based IDE optimized for Solidity programming on MIS Blockchain.
- Capabilities: Enables coding, testing, and deploying smart contracts directly within the MIS environment.



Frontend Integration

- Utilizes smart contract addresses and ABI for blockchain interactions through contract calls.
- Web3.js: Connects the frontend to the blockchain, facilitating user interactions with smart contracts via MetaMask.

Contracts

Smart Contracts

01

PropertyRegistryNFT.sol

ERC721 NFT collection used to register real property on the blockchain and verify ownership and location information.

02

LeaseAgreementFactory.sol

Serves as a SSOT for the creation and tracking of LeaseAgreement.sol contracts. Provides simple data querying and management of all leases.

03

LeaseAgreement.sol

Tracks the various attributes and state of the digital property lease agreements. Points to an NFT in the PropertyRegistryNFT collection to verify ownership .



Smart Contracts

Contracts

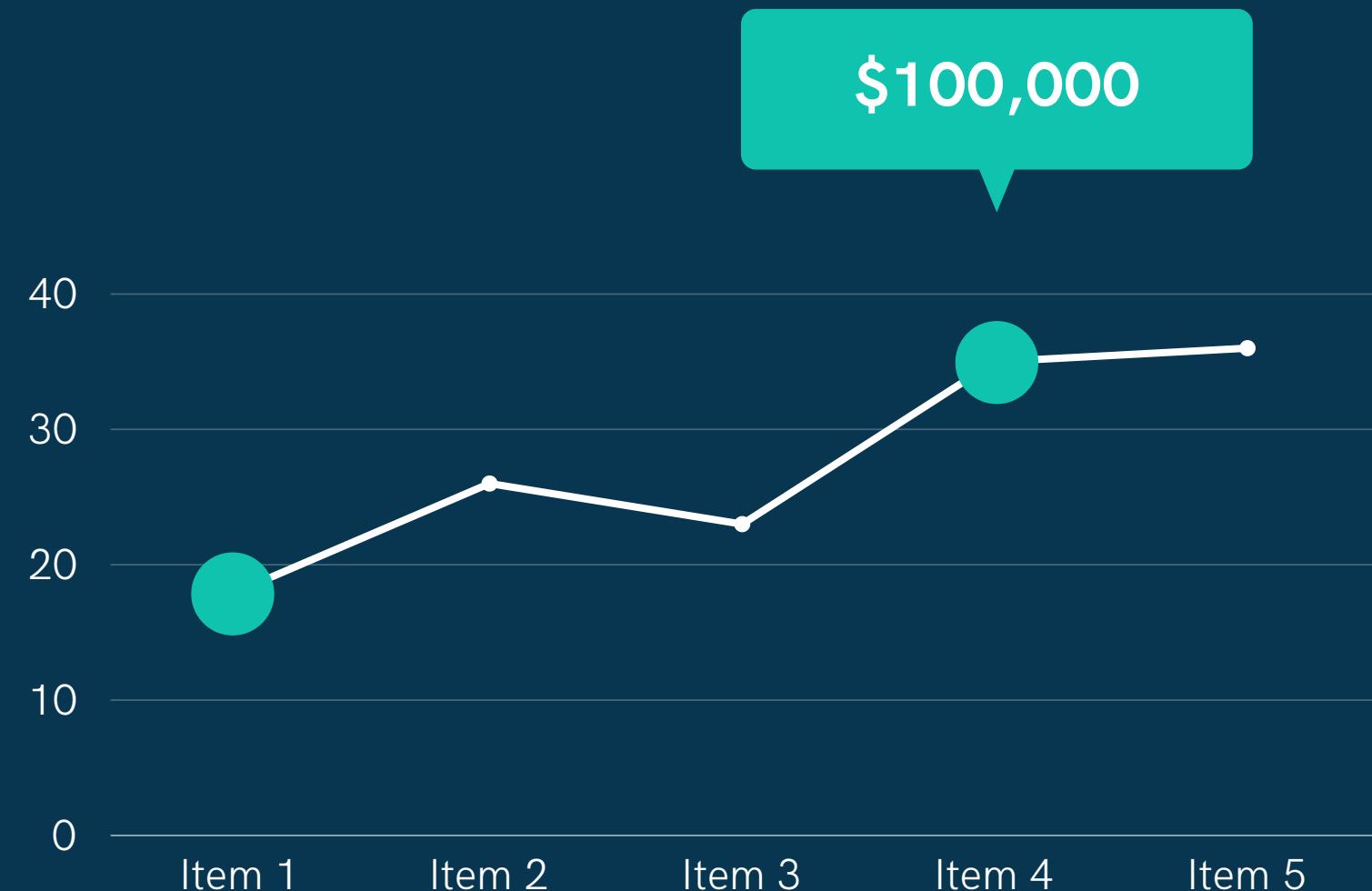
03

LeaseAgreement.sol

Tracks the various attributes and state of the digital property lease agreements.

Attributes:

- **status** (enum)
- **lessees** (array[address])
- **maximumOccupants** (uint)
- **property** (IERC721)
- **paymentRecipient** (address)
- **period** (uint)
- **securityDeposit** (uint)
- **startTimestamp** (uint)
- **endTimestamp** (uint)
- **renewable** (bool)
- **propertyType** (enum)
- **propertyBedrooms** (uint)
- **propertyBathrooms** (uint)
- **propertySquareFootage** (uint)
- **propertyDescription** (string)



Tokenomics

Platform Tokenomics

Tokenomics are the cornerstone for any blockchain project. In the case of RentFi we are no different.

1

Tokens represent a % of ownership in the rented asset

2

If Renters take actions that increase property values they will be rewarded with more tokens up to a cap of 49%



Progress

Percent Completion

42.37%

Step 1

Step 2

Step 3

Concept Development:
Architecture, Design,
Tokenomics

Contract Creation:
Factor and Child
Contracts

GUI Creation: Connect
contracts to template and
customize for our use cases

Questions?



RentFi

