Ergohack #9

3d explorer

Explore blockchain data in a dynamic, immersive 3D space

1. MOTIVATION

• Intuitive Understanding

By visualizing complex UTXO data in 3D, my goal is to make blockchain concepts more accessible, playful, and educational.

• Unique Approach

A 3D environment offers a distinct, engaging way to grasp blockchain interactions and visualize connections within UTXO-based systems.

2. GOALS

• Interactive 3D Visualizer

Develop a site that displays blocks, transactions, inputs, outputs, assets, and addresses in real time.

• Enable In-Depth Exploration

Allow users to zoom in on transactions and navigate previous blocks for detailed insights.

• Educational Interface

Serve as an educational tool to demystify the UTXO model and enhance understanding of blockchain's structural nuances.

3. CURRENT PROGRESS

• Data Integration

Successfully integrated real-time data fetching from the Ergo blockchain.

• 3D Visualization

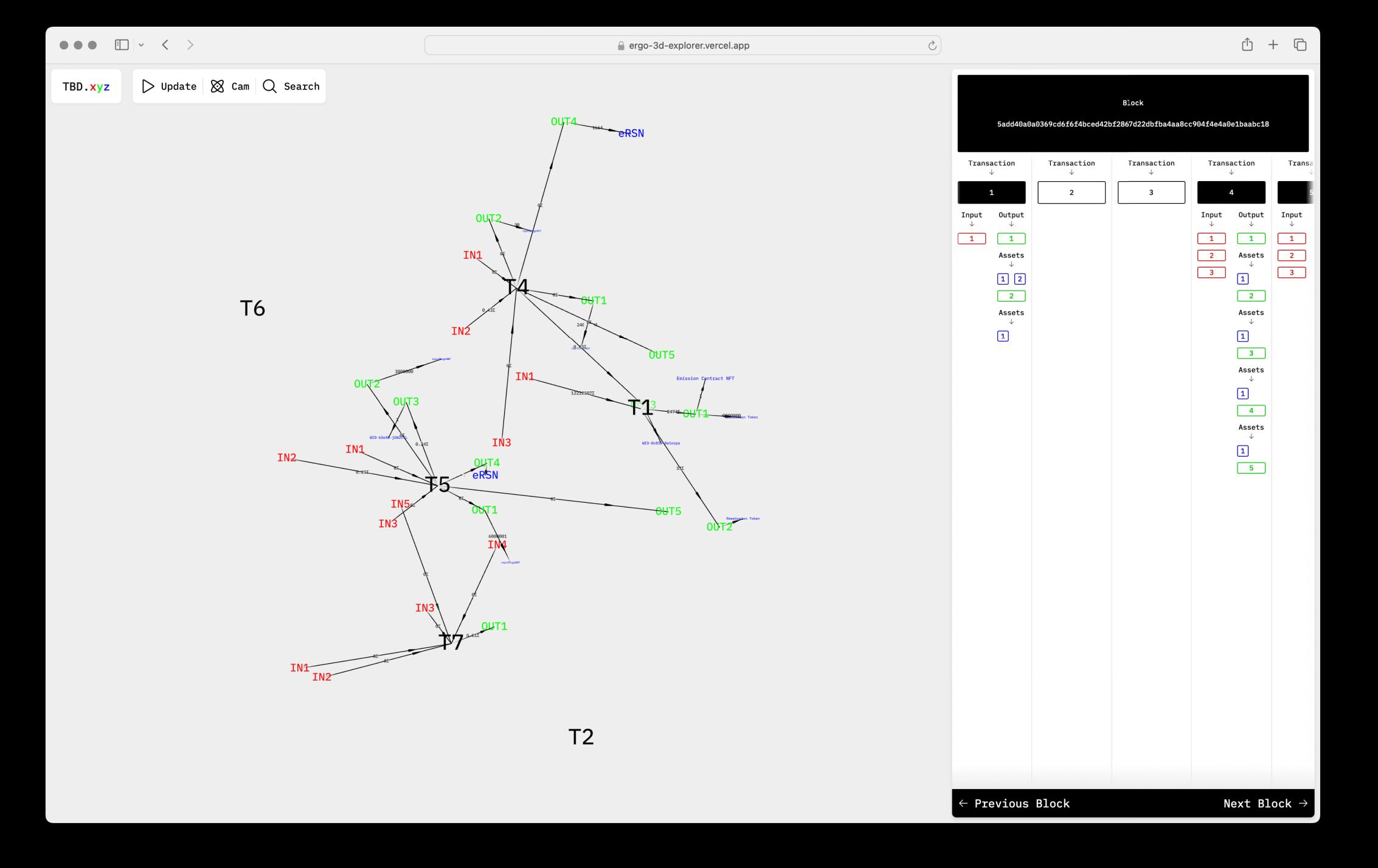
Achieved dynamic 3D rendering of blocks, transactions, and connections between them.

• Basic Search Capabilities

Implemented a foundational search for assets, addresses, and blocks.

• Interactive 2D & 3D Interface

Built a 2D layer that supports the 3D view, aiding in user navigation and interaction with the data.



4. FUTURE STEPS

• Improved Search

Expand search options for e.g. addresses, solo tranactions etc.

• <u>User Wallet Exploration</u>

Add a feature for users to locate and explore their wallet's transactions in 3D space.

• Mobile Compatibility

Develop a mobile-friendly version for better accessibility.

• Unified 2D and 3D Integration

Standardize references to ensure a seamless flow between 2D and 3D views.

• Custom Domain & Branding

Host the project on a dedicated domain and establish a cohesive "identity".

• Community Suggestions

Share your thoughts and ideas for this project.

5. VIDEO AND DEMO

Video Url

https://youtu.be/uspsmPDSqgw

• Demo Url

https://ergo-3d-explorer.vercel.app/

Thank you! for taking the time to explore this project