

INTRO/ABSTRACT

Earthereum is a cryptocurrency token built on the Ethereum blockchain utilizing an ERC-20 contract and implemented with Solidity in Remix and deploying using MetaMask. The mission of Earthereum is developing an ecologically-friendly utility for cryptocurrencies.

METHODS

Solidity was utilized as the programming language and the smart contract creating and brokering the transactions of the cryptocurrency tokens was developed and deployed in Remix. Metamask was used as the authentication and wallet for transactions. Research on Ethereum trends was conducted using Trading View and Ycharts.



Fig.1 TradingView chart displaying Ethereum market trends

RESULTS

The results provided a secure smart contract deployed on the Ethereum blockchain, created with the able to facilitate and handle token transactions between wallets. Research also provided a correlation between Ethereum prices and gas costs. Smart contract exploit risks were also found to be negligible in research, with the methods of securely developed smart contract providing few opportunities for modifications without agreement of all token holders.

EARTHHEREUM: CRYPTOCURRENCY TOKEN

- Developed Using Solidity
- ERC-20 Smart Contract on Blockchain
- Analysis on Market Trends
- Smart Contract Exploit Research

