

Future Interns - Blockchain & Cryptocurrency Internship

Task 2: Build a Free Crypto Token on Polygon Amoy Testnet

Name: Harshith Pasupuleti

Internship: Blockchain & Cryptocurrency - Future Interns

Platform: Polygon Amoy Testnet

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Overview:

This task involved creating and deploying a custom ERC-20 token using Solidity and the Polygon Amoy Testnet. The goal was to understand the full smart contract lifecycle, from writing and compiling code in Remix IDE to deploying and verifying the token on-chain using MetaMask.

Steps Performed:

1. Installed and configured MetaMask browser extension.
2. Added the Polygon Amoy Testnet network manually.
3. Requested free test MATIC tokens from the Polygon faucet.
4. Wrote ERC-20 token smart contract using Solidity and OpenZeppelin library.
5. Compiled the contract in Remix IDE.
6. Connected MetaMask to Remix using Injected Provider.
7. Deployed HarshithToken (HRT) with a total supply of 1,000,000 tokens.
8. Verified the contract on OKLink Amoy Explorer and imported token to MetaMask.

Token Details:

Token Name: HarshithToken

Symbol: HRT

Total Supply: 1,000,000 HRT

Decimals: 18

Contract Address: 0x8d22a9b9292117fe1e77fb61d4e90f6a4cd2f5e8

Network: Polygon Amoy Testnet (Chain ID: 80002)

Explorer

<https://www.oklink.com/amoy/token/0x8d22a9b9292117fe1e77fb61d4e90f6a4cd2f5e8>

Link:

Key Learnings:

- Learned how to write and deploy smart contracts using Solidity.
- Understood the working of ERC-20 tokens and tokenomics basics.
- Learned to interact with testnets, faucets, and blockchain explorers.
- Experienced the development cycle using Remix IDE and MetaMask.
- Understood blockchain transactions, gas fees, and on-chain verification.

Outcome:

Successfully deployed the HarshithToken (HRT) on the Polygon Amoy Testnet and verified the contract on the OKLink blockchain explorer. The token was also added to MetaMask wallet as part of the internship deliverables.

Note: Screenshots of Remix IDE deployment, OKLink explorer verification, and MetaMask token balance are attached separately as proof of completion.