

Coding in Solidity and Smart Contract development

Use a framework (Hardhat and brownie preferably) and language of your choice to code out a smart contract with the following characteristic.

Functionality:

- Create a token that has mint, burn & freeze functionality
- Only owner of contract should be able to mint, burn & freeze

Bonus:

- Verify contract on Etherscan
- Mint, burn & freeze functionality each consist of different roles that are transferrable
- Owner of contract is controlled by Gnosis Safe multisig
- Set a max mint amount limit based on time (block time or equivalent)
- Interact with the contract to show the various interaction flow

Deliverables:

- Github link of code
- Etherscan link of smart contract address