

## Features to be added in our New Cryptocurrency TCoin

We will be creating a completely new cryptocurrency on top of Ethereum Blockchain using Solidity Programming Language. Our new currency which will be called TCoin or TC must contain all the below features.

- Coin must be called TCoin and must have the symbol as TC
- Creator must be able to specify the initial supply during the creation.
- Users must be able to transfer the coins to other people's account.
- Debt or negative balance should not be allowed.
- There should be one administrator who may or may not be the currency creator. ie. currency creator must make someone as admin during the creation.
- Anyone must be able to buy or sell the TCoins using ethers.
- Buy or sell price must be set by Admin at any time.
- Admin must be able to transfer the administrator role to any other address
- Admin must be able to mint the new TCoins to anyone's address
- Admin must be able to freeze or unfreeze the coins of anyone's account.
- Proof-of-work must be there for the consensus.
- Miner must be challenged and must be rewarded a new TCoin of every block he/she mine for every 1 minute since last block.
- Mining difficulty must be adjusted up or down to target an average of 10 minutes per reward.