

Block Chain Technology

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Chapter 1

Introduction

1.1 What is Block Chain Technology?

Blockchain technology is an advanced database mechanism that allows transparent information sharing within a business network. A blockchain database stores data in blocks that are linked together in a chain.

1.2 Architecture of Block chain Technology

Blockchain is a sequence of blocks, which holds a complete list of transaction records like conventional public ledger. A block has only one parent block. It is worth noting that uncle blocks(children of the block's ancestors) hashes would also be stored in ethereal blockchain.

1.3 Different Types of BlockChain Technology

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Chapter 2

Layered Architecture of Blockchain Ecosystem

2.1 Components of Blockchain Technology

- Node Application
- Distributed Database
- Consensus Algorithm
- Virtual Machine
- Peer-to-Peer Network

2.2 Block Chain Layers

1. Hardware/Infrastructure layer
2. Data layer
3. Network layer
4. Incentive layer
5. Contract layer
6. Application and Presentation layer