Constructing technologies

- Hash and Digital signature
- Proof of Work (PoW)
- Peer to Peer (P2P)

Functions of the Bitcoin Blockchain

- Execution of applications
- Guarantee of the continuity of data
- Sharing of the blockchain data among nodes
- Data communication through the P2P network

Achievements of the Bitcoin Blockchain

- Enable the execution of applications using a dedicated script
- Enable transactions whose authenticity is guaranteed (prevent duplicate payments)
- Ensure traceability of data and enable transparent transactions (falsification is difficult)
- Reduce server costs (for the development and operation)
- Enable the development and operation of a stable system (zero downtime system)
- Stably maintain the ecosystem against any attacks by malicious users, without a central authority