



Blockchain - Database

Blockchain is a database with a unique characteristic that distinguishes it from conventional databases: decentralization. Both share properties such as persistence, integrity, concurrency, security, and recoverability. However, blockchain differs in its cryptographic linking and, above all, its decentralized nature.

Unlike traditional databases, which store information on a centralized server, blockchain distributes information across a network of nodes. Each node may or may not contain a complete copy of the 'main' database, which ensures availability and fault tolerance. In addition, information is recorded in cryptographically linked blocks, ensuring data immutability.

Decentralization offers significant advantages, such as the elimination of a single point of control, transaction transparency, and the need for consensus in decision-making. However, it also presents challenges, such as scalability, speed, and development complexity. This Adsum-Blockchain project is designed to provide tools that massify the use of Blockchain, so we can safely say that, despite the challenges, the future of blockchain as a decentralized database is promising; Its potential to transform data management, transparency, and security in various industries is undeniable, and as current limitations are overcome, blockchain is positioned as a key technology in building a more reliable and decentralized digital world, where data really belongs to people and there is real data sovereignty.