

What is Hyperledger Fabric in blockchain development?



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SEO EXECUTIVE · 28m


Hyperledger Fabric is a permissioned blockchain framework designed for enterprise use. Unlike public blockchains like Bitcoin or Ethereum, Hyperledger Fabric allows only authorized participants to access the network. It is highly modular, enabling developers to plug and play various components such as consensus algorithms, membership services, and smart contracts, which are called "chaincode" in Fabric.



One of its key features is dividing transaction processing into three phases: execution, ordering, and validation, which enhances scalability and privacy. Fabric supports multiple programming languages for smart contract development, making it versatile for various use cases.

Its architecture allows the creation of private channels within the network, ensuring that sensitive data is only shared between designated parties. Hyperledger Fabric is widely used to build secure, scalable, and transparent [blockchain solutions](#) in industries such as supply chain, finance, and healthcare.

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 Joined March 2024