Blockchain Platform Comparison - Assignment

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Blockchain Platforms Comparison Table

Blockchain Name	Type	Consensus Mechanism	Permission Model	TPS	Smart Contracts	Token Support
Ethereum	Public	Proof of Stake (PoS)	Open	15-30	Yes (Solidity)	Yes (ETH)
Hyperledger Fabric	Private	Pluggable BFT	Permissioned	3000+	Yes (Go, Java)	No Native Toke
R3 Corda	Consortium	Notary Nodes	Permissioned	100+	Yes (JVM-based)	No Native Toke

Comparison Summary Report

Ethereum, a public blockchain, offers strong support for decentralized applications via its EVM and Solidity. Its open nature and native token (ETH) make it suitable for public-facing applications like DeFi.

Hyperledger Fabric, a private blockchain, delivers high throughput with a modular consensus and strong privacy. It's ideal for known enterprises like supply chain networks where speed and access control are crucial.

R3 Corda, as a consortium blockchain, excels in privacy and secure communications between known entities, especially in finance. It doesn't rely on broadcast consensus, which improves efficiency and privacy.

For a decentralized app, Ethereum is ideal due to its openness and token economy. For a supply chain among known partners, Hyperledger Fabric is best due to its permissioned structure and

modularity. For inter-bank applications, R3 Corda stands out due to its legal-contract design and privacy features.