



SNS COLLEGE OF ENGINEERING

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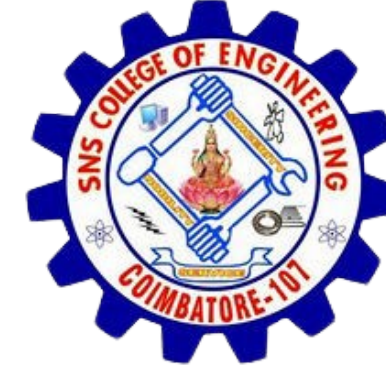
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING IOT Including CS&BCT
COURSE NAME : DISTRIBUTED LEDGER TECHNOLOGY

TOPIC: Blockchain in Government



Introduction to Blockchain in Industry

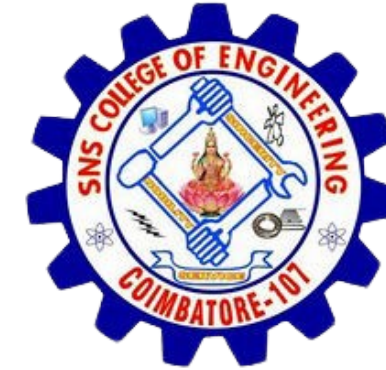
Governments across the world are exploring blockchain to bring transparency, efficiency, and trust into public systems. Blockchain's decentralized nature allows for tamper-proof records, secure digital identities, and reduced bureaucracy. It helps governments streamline services, prevent corruption, and deliver faster, citizen-centric governance.



Digital Identity and Citizen Records

Blockchain simplifies identity verification and management.

- Digital ID Systems: Citizens can have a secure, verifiable, and self-owned digital identity that can be used for various services like voting, tax filing, and banking.
- Permanent Records: Birth certificates, marriage records, land titles, and other personal records can be securely stored and accessed without the fear of tampering or loss.
- Interoperability: Government departments can share verified records without duplication or manual verification.



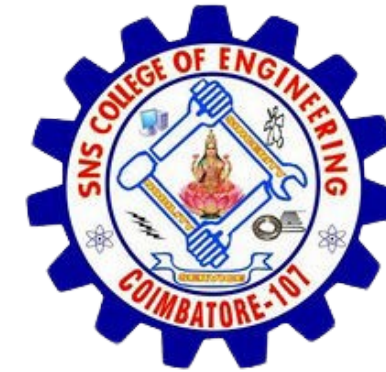
Transparent Governance and Voting

Blockchain improves trust and efficiency in core governance areas.

- **E-Voting:** Blockchain-based voting systems ensure election integrity through transparency and immutability. Every vote is recorded and verifiable, reducing election fraud.
- **Public Fund Tracking:** Blockchain can track how public money is used, reducing corruption in subsidy distribution, grants, and public infrastructure projects.
- **Legislation and Decision Logs:** Bills, proposals, and government decisions can be logged on the blockchain to provide a clear audit trail.



Land Records, Procurement, and Benefits Distribution



Secure blockchain solutions prevent fraud and ensure fair services.

- Land Registry: Property ownership and transfers recorded on blockchain avoid land fraud and disputes by making the history transparent and permanent.
- Government Procurement: Blockchain ensures fair bidding and procurement processes through transparent smart contracts.
- Welfare and Subsidy Distribution: Direct benefit transfers using blockchain ensure that subsidies reach the intended recipients without middlemen or delays.