

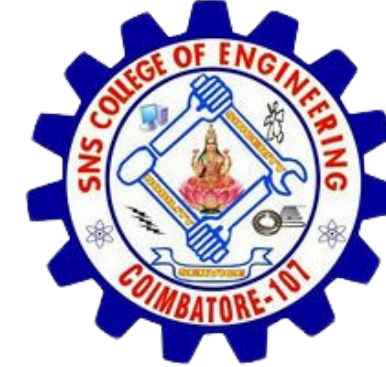


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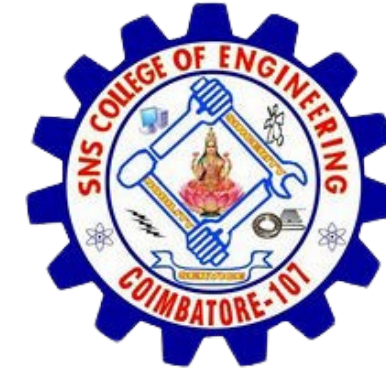
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING IOT Including CS&BCT
COURSE NAME : DISTRIBUTED LEDGER TECHNOLOGY

TOPIC: Government use cases



Introduction to Government Use Cases of Blockchain

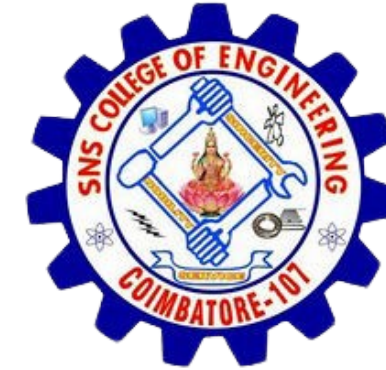
Blockchain is transforming the way governments manage records, deliver services, and interact with citizens. Its key features like immutability, decentralization, and transparency allow governments to reduce corruption, increase efficiency, and build trust. From digital identities to secure voting, blockchain is driving a new era of public sector innovation.



Digital Identity and Records Management

One of the most impactful use cases is creating digital identities and managing government records securely.

- Citizens can have a blockchain-based ID that is portable, verifiable, and secure.
- Governments can manage birth certificates, passports, driver's licenses, and academic records on blockchain to prevent forgery and ease verification.
- These systems help reduce fraud in public programs and make it easier for citizens to access services without paperwork delays.



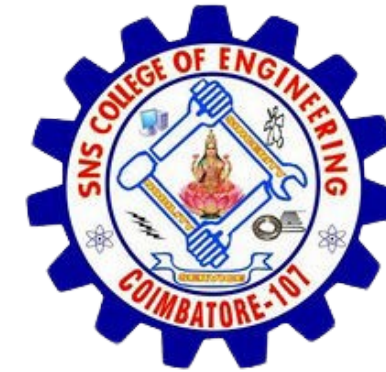
Voting, Transparency, and Public Finance

Blockchain brings transparency and security to voting and financial systems.

- E-Voting: With blockchain, votes can be cast securely and verified in real time, preventing tampering and ensuring fair elections.
- Public Fund Tracking: Governments can show taxpayers exactly how funds are used by making expenditures and grants visible on a blockchain.
- Anti-Corruption: Because blockchain records can't be altered, it becomes much harder for public officials to hide misuse of power or resources.



Land Ownership, Procurement, and Subsidy Systems



Blockchain helps prevent fraud and speeds up public transactions.

- Land Registry: Blockchain allows property records to be stored permanently, reducing land disputes and illegal land grabs.
- Transparent Procurement: Smart contracts can automate and fairly manage government tenders and contracts.
- Welfare Distribution: Blockchain enables direct, traceable transfer of funds to citizens for pensions, healthcare, and education, ensuring the right person gets the right benefit.