

SNS COLLEGE OF ENGINEERING



Kurumbapalayam (Po), Coimbatore – 641 107

An Autonomous Institution

Accredited by NBA – AICTE and Accredited by NAAC – UGC with 'A' Grade Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

COURSE NAME: 19CS622-Blockchain Technology

III YEAR /VI SEMESTER

Unit 1- INTRODUCTION TO BLOCKCHAIN

Topic 7: Decentralization using Blockchain



Brain Storming



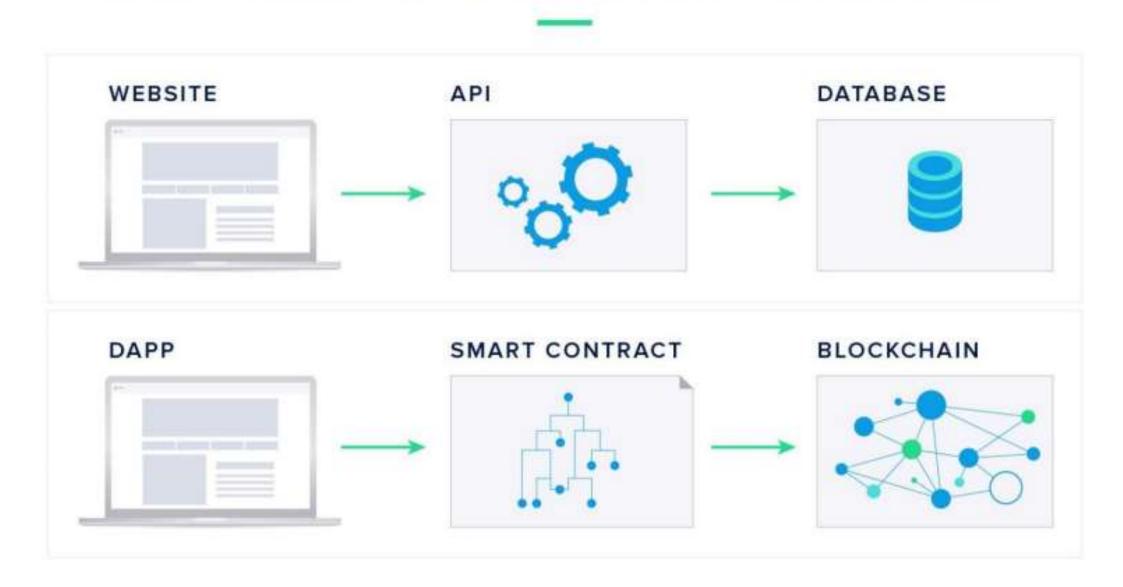
- 1. Blockchain terminologies
- 2. Define Distributed ledger.



Decentralized Apps - dApps



TRADITIONAL WEB VS. DECENTRALIZED APP

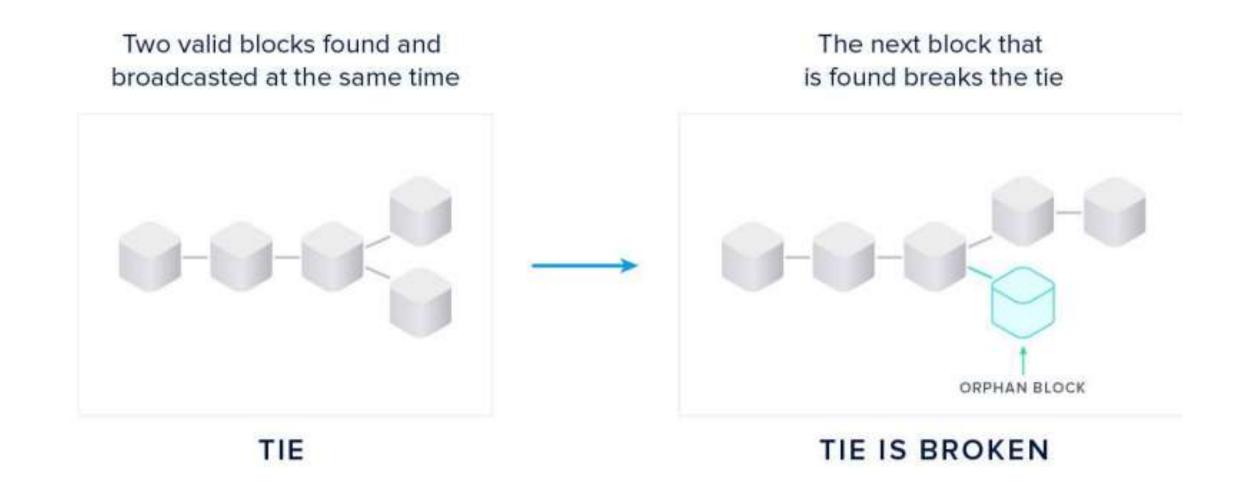




Decentralized Apps - dApps



LONGEST CHAIN RULE





Decentralized Apps - dApps



Decentralized Application (Dapp)

- Dapp is an application that uses smart contracts.
- Dapp provides a user-friendly interface to smart contracts
- Dapp main components are smart contract and files for web user interface front-end/back-end



Implement smart contract in a high-level language

- Compile the contracts in a high-level language
- Deploy the contracts on Ethereum Blockchain network using Ethereum clients
- Build web applications that interact with the smart contracts

References





TEXT BOOKS

- 1. Mastering Bitcoin: Unlocking Digital Cryptocurrencies, by Andreas M Antonopoulos 2018
- 2. Imran Bashir, "Mastering Blockchain: Distributed Ledger Technology, Decentralization and Smart Contracts Explained", Second Edition, Packt Publishing, 2018.
- 3. https://101blockchains.com/blockchain-vs-database-the-difference/

REFERENCES

- 1. William Mougayar, "Business Blockchain Promise, Practice and Application of the Next Internet Technology, John Wiley & Sons 2016.
- 2. Josh Thompson, 'Blockchain: The Blockchain for Beginnings, Guild to Blockchain Technology and Blockchain Programming', Create Space Independent Publishing Platform, 2017.
- 3. Arvind Narayanan, "Bitcoin and Cryptocurrency Technologies: A Comprehensive Introduction", Princeton University Press, July 19, 2016.
- 4. Henning Diedrich, Ethereum: Block chains, Digital Assets, Smart Contracts, Decentralized Autonomous Organizations-2016

Thank You