




Blockchain and Cryptocurrency

By: Syeda Tayyaba Bukhari



Now through Smart
Contracts, we can
code on blockchain

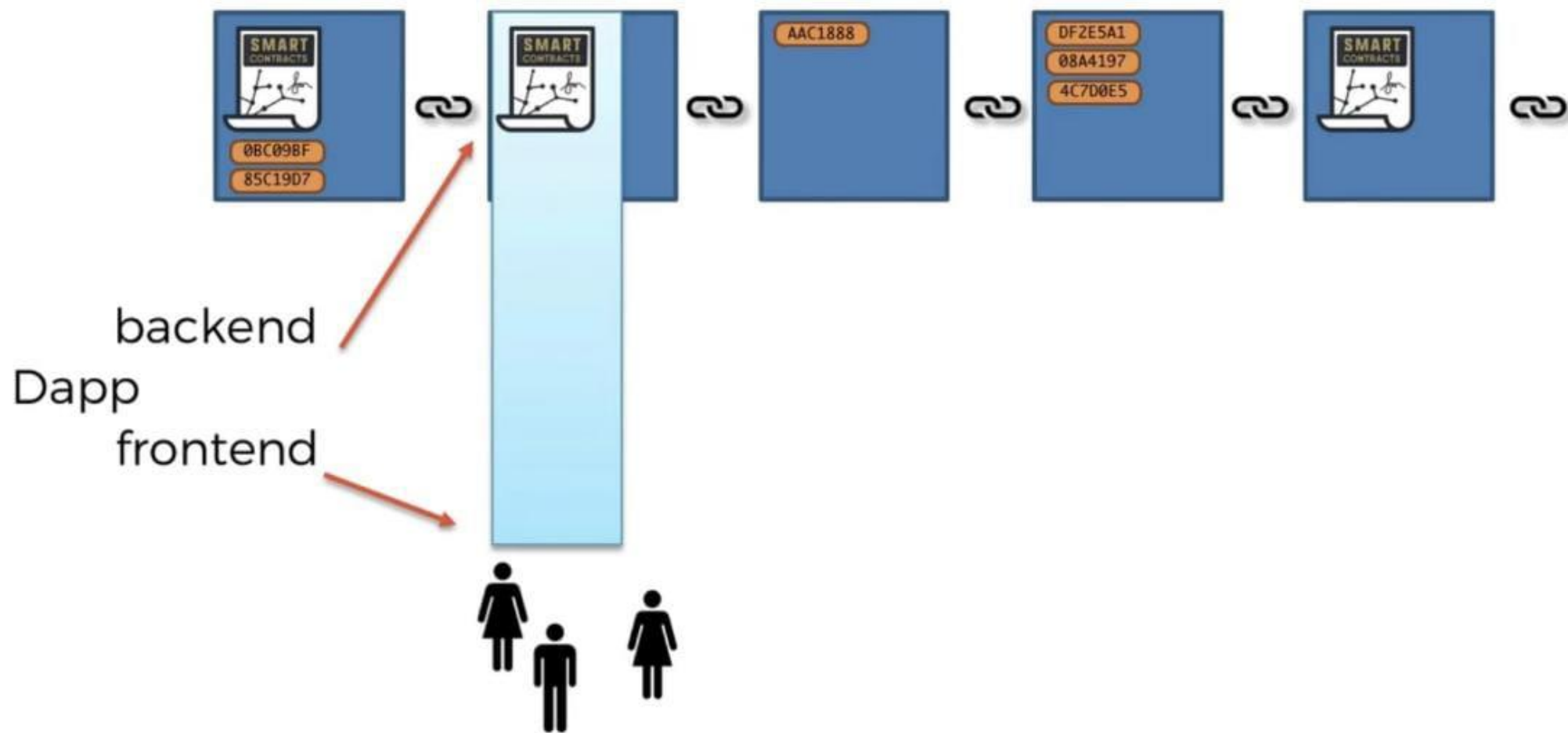
Homework 5

Smart Contracts for Dummies

<https://www.freecodecamp.org/news/smart-contracts-for-dummies-a1ba1e0b9575/>



Dapps - Decentralized Applications



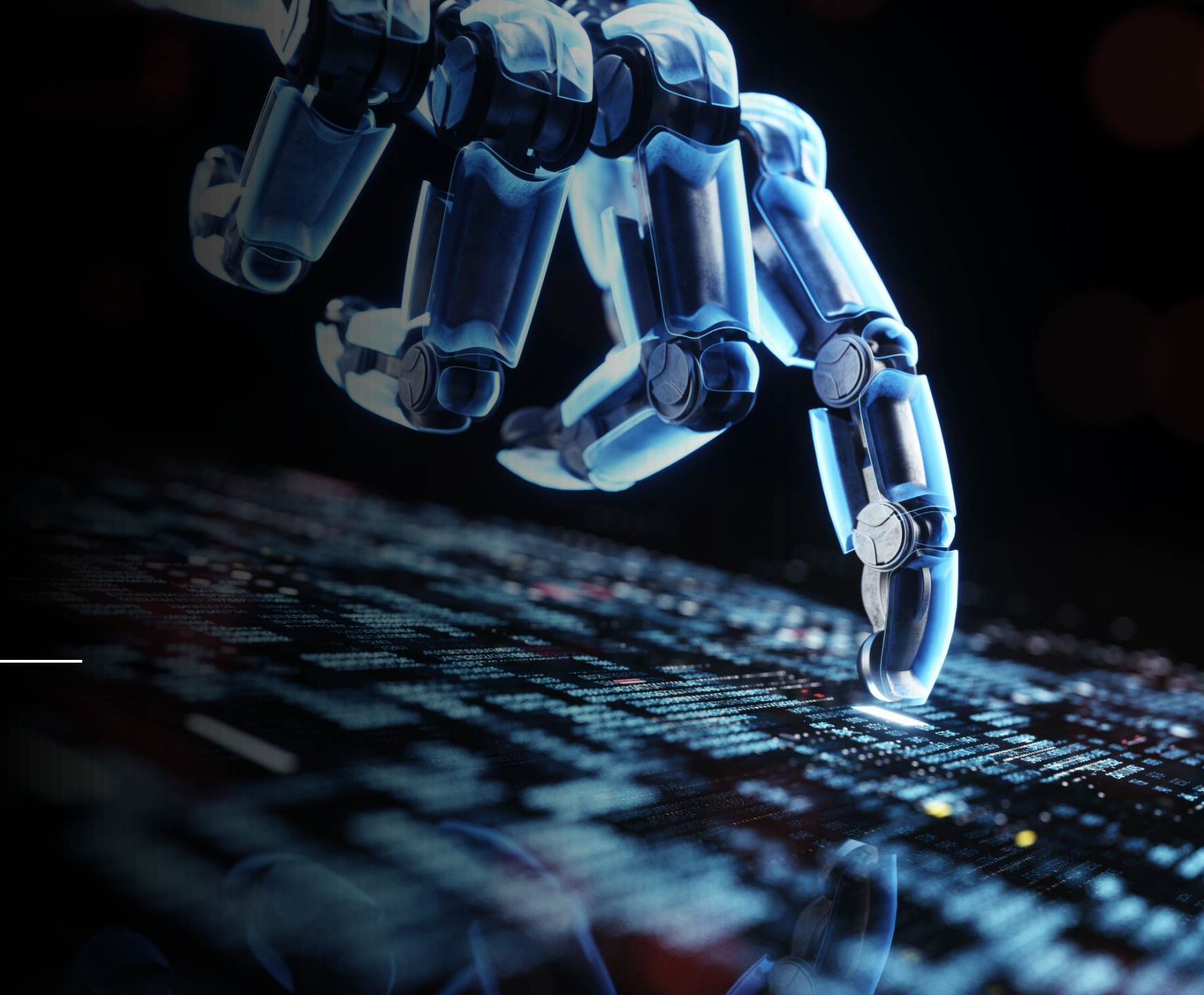


Security issue

- Viruses and access to private file
- Infinite loop/Heavy Computations



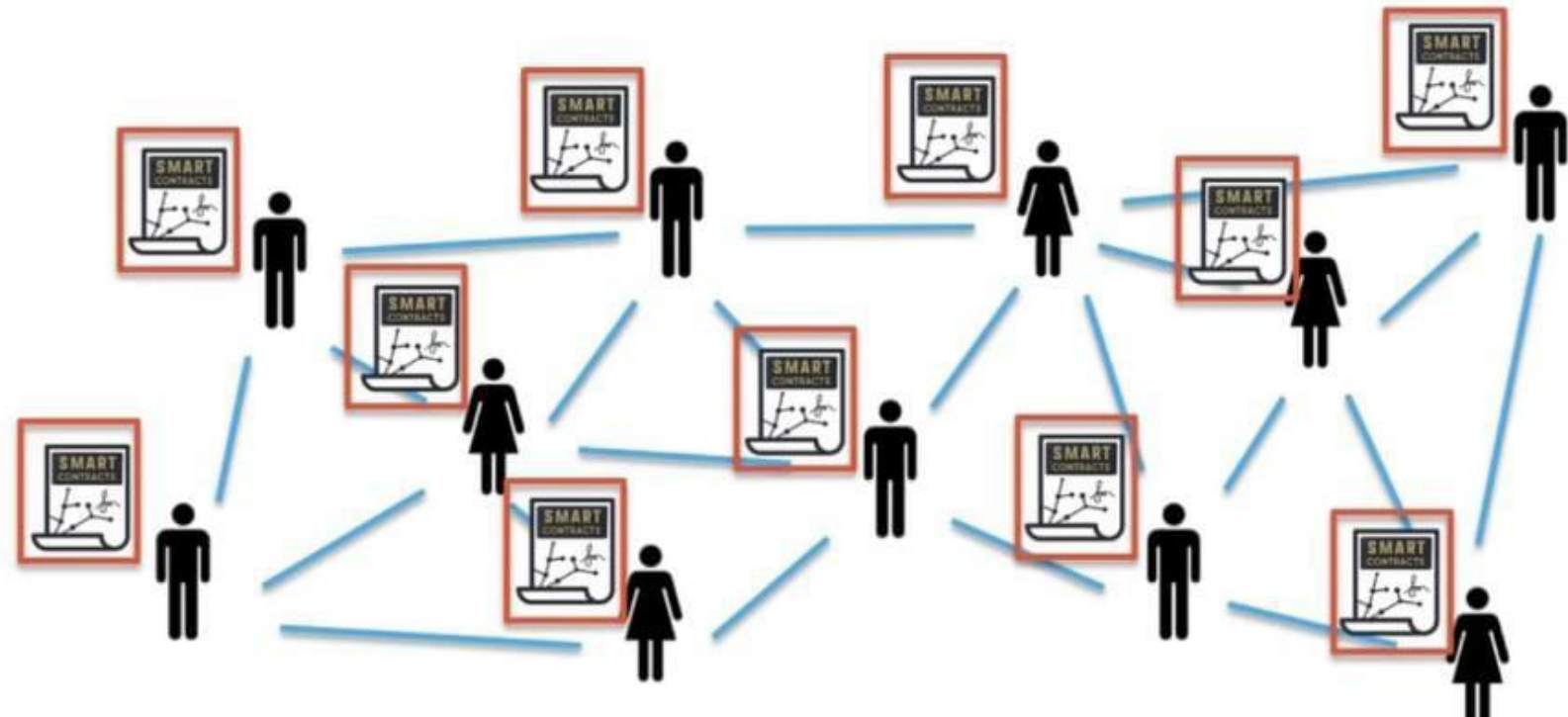
EVM – Ethereum Virtual Machine



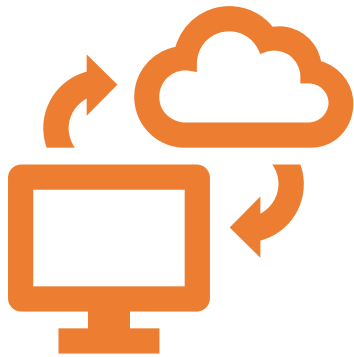


Each Node has:

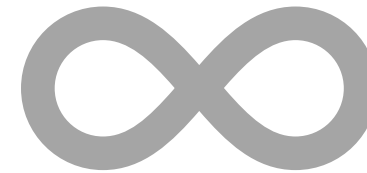
1. History of all smart contracts
2. History of all transactions
3. Current state of all smart contracts



Security issue



Viruses and access to private file
--- **Handled with EVM**



Infinite loop/Heavy
Computations



To solve infinite loop:

Developer of smart contract will be penalized for writing that code



Gas

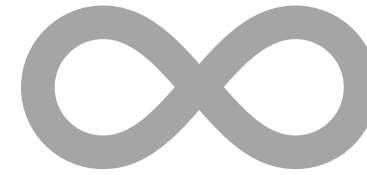
Gas

Any computation that runs on blockchain, developer of the smart contract needs to pay

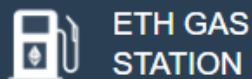
Security issue



Viruses and access to private file --
- **Handled with EVM**



Infinite loop/Heavy Computations
--- **Handled by adding Cost (Gas)**



🌐 Change Currency

👁 TxPool Vision

🚗 Gas Burners

📖 FAQ ▾

🔗 Links ▾

📄 API

✉ Feedback

🕒 Legacy Version

🏦 Earn / Borrow ▾

Recommended priority fee in Gwei

2

FAST < 2m

\$0.13 / Transfer

Gas Price (legacy): 36

2

STANDARD < 5m

\$0.13 / Transfer

Gas Price (legacy): 30

2

SAFE LOW < 30m

\$0.13 / Transfer

Gas Price (legacy): 27

Base Fee: 41 (\$2.69 / Transfer)

All You Need to Know About EIP-1559

[Read on EGS NEWS ►](#)

vesper
ORBIT

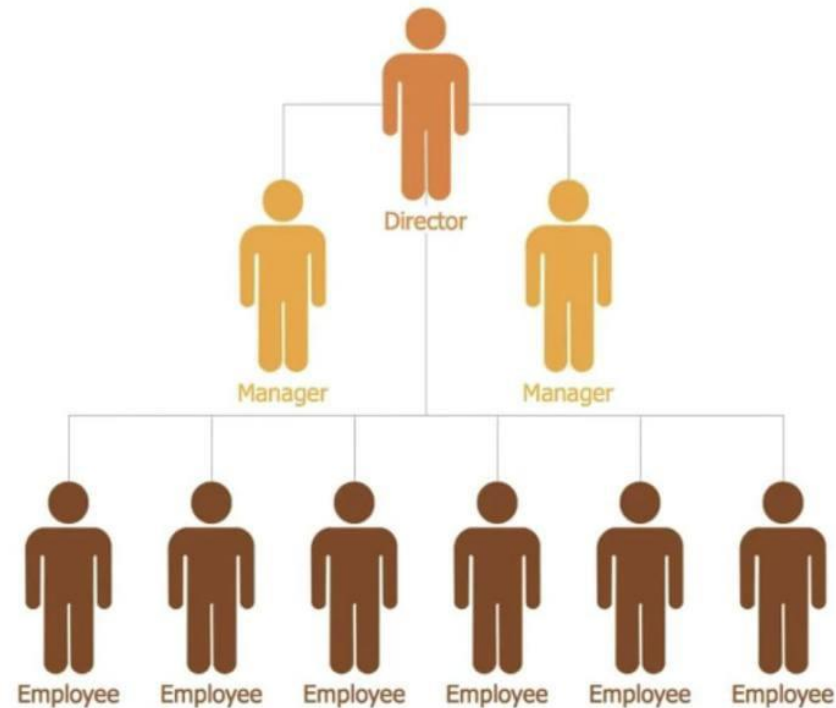
TRY IT NOW!
ACCESS YIELD FROM DEFI'S
MOST EXCITING PROJECTS



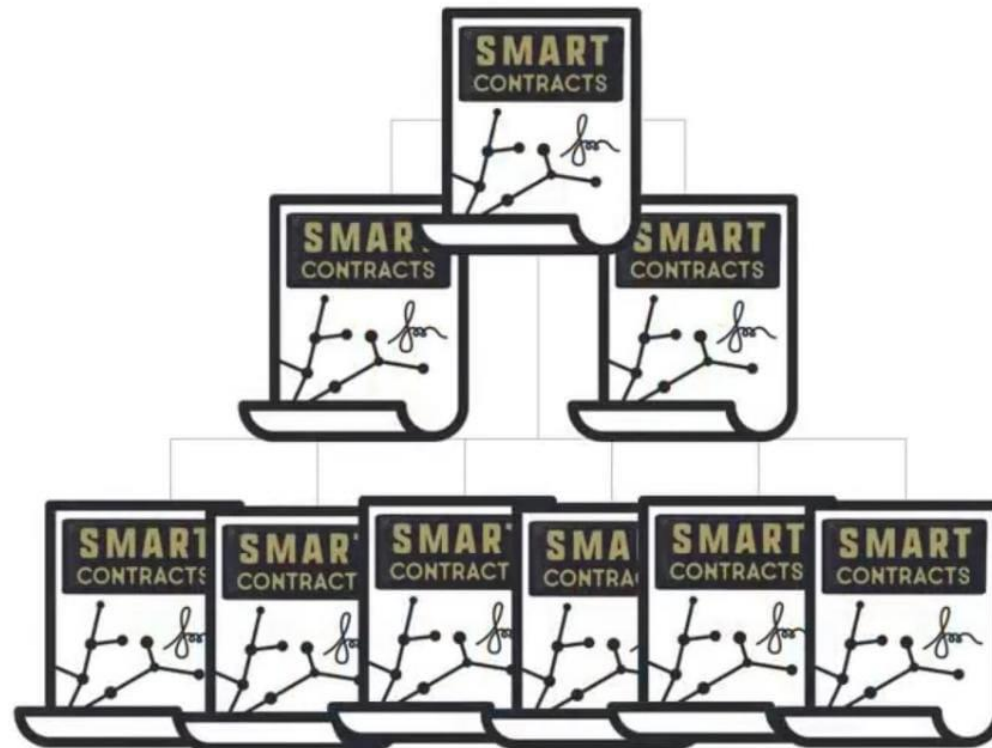
Why Gas? why not Ether?

Decentralized Autonomous Organizations (DAOs)

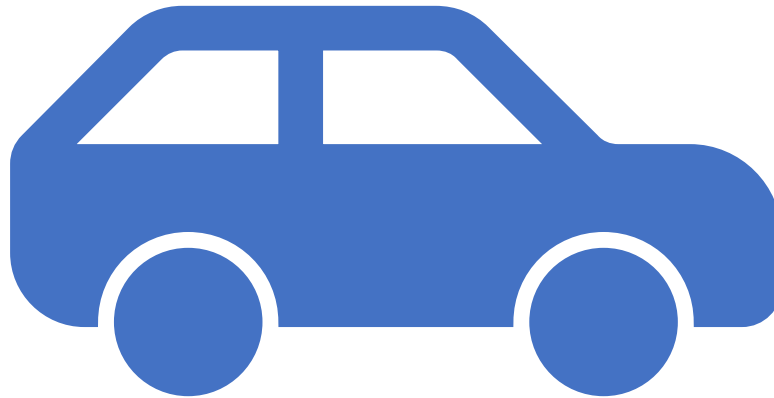
Generic Organization



DAOs



Automatic cars without driver





Additional Reading

DAOs, DACs, DAs and More: An Incomplete Terminology Guide

Posted by Vitalik Buterin on May 6, 2014

<https://blog.ethereum.org/2014/05/06/daos-dacs-das-and-more-an-incomplete-terminology-guide/>

Acknowledgement and Source:

- <https://www.udemy.com/course/build-your-blockchain-az/>