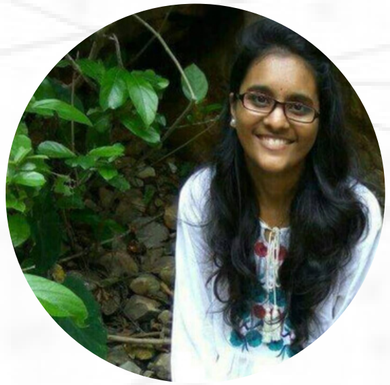
FITCINE

BTECH TERM PROJECT

Final Presentation

Dr. Rajendra Prasath
Mentor



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Student

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Student

Team Code : B16RP01

START - TO - END STORY CHARITY

Want to donate money

Find organizations and appropriate events to donate

All those in need of medication

Find out trustworthy organizations

Pay directly in hand or through some online application

P R O B L E M - 1

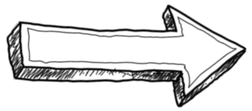
Find out trustworthy organizations

Trustworthy?

How do you know if a particular organization is really trustworthy?

P R O B L E M - 2

Pay directly in hand
or through some
online application

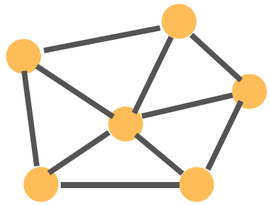


Do you exactly know
where your money is
going?

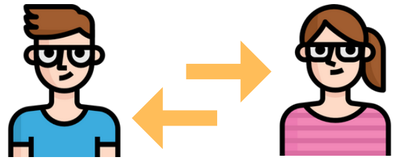
WHAT IS BLOCKCHAIN?

Distributed Digital ledger

Encrypted Information



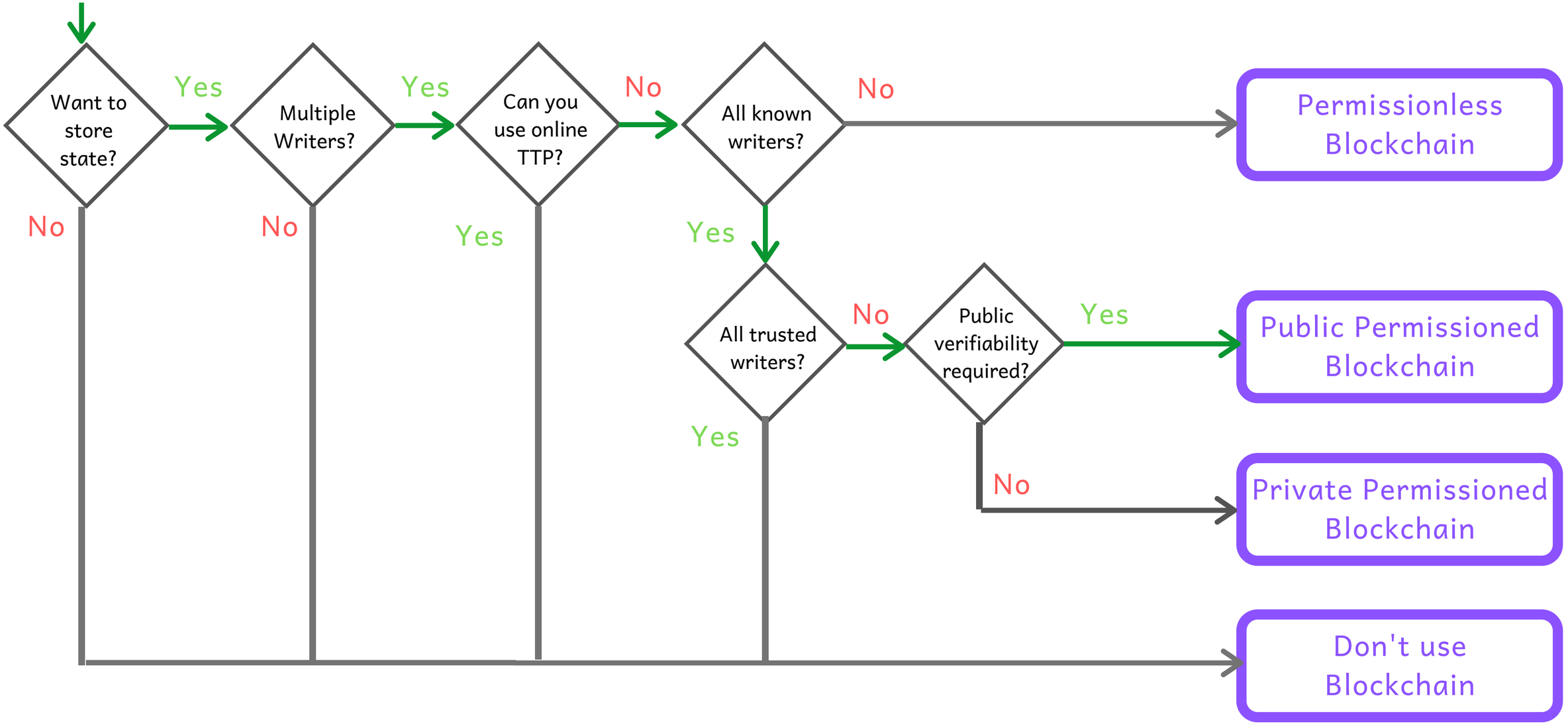
Decentralization



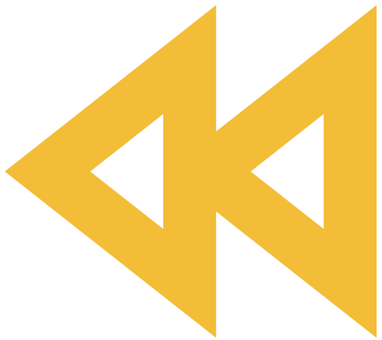
Peer – to – Peer

Data Sharing

SO, WHY BLOCKCHAIN?



Source : Do you need blockchain? Karl Wust and Arthur Gervais, Department of CS, ETH Zurich



REWIND

CERTIFICATIONS

1 Blockchain: Foundations and Use Cases
Consensys Academy

2 Blockchain Specialization
The State University of New York

Fitcine website

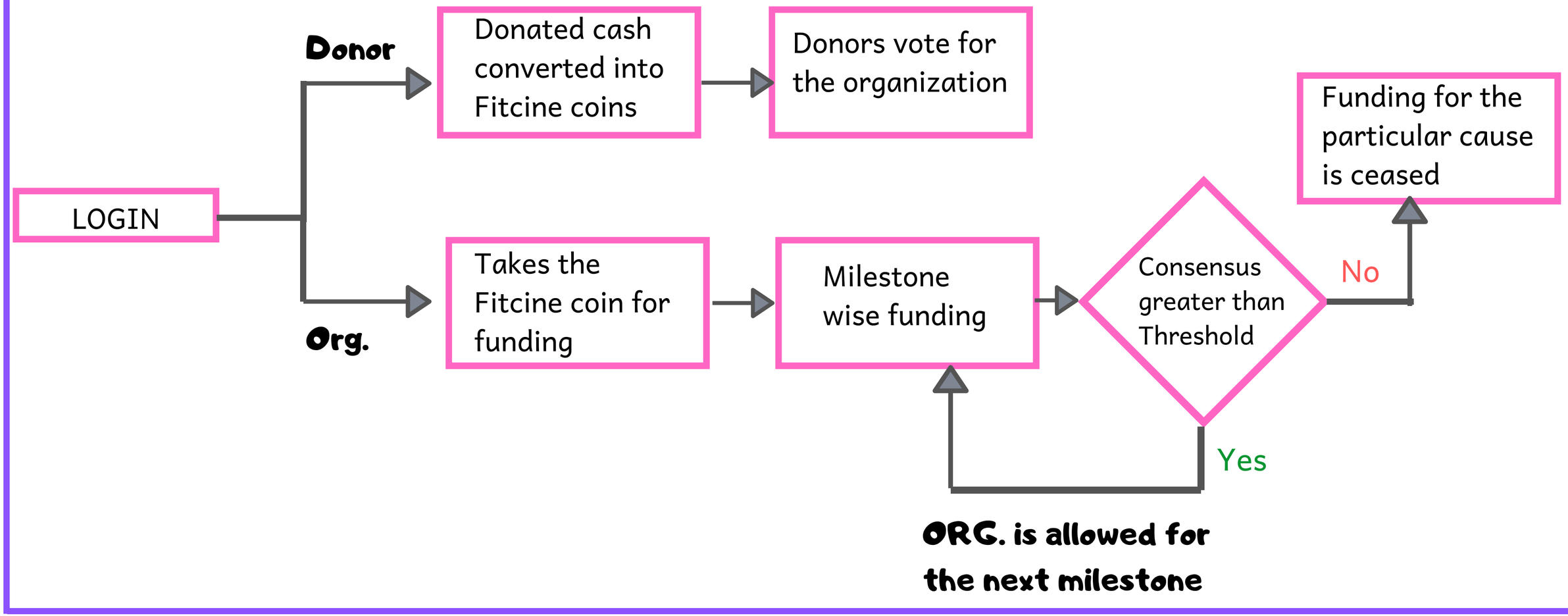
- Responsive Website
- Devops mode of development

W H I T E P A P E R V 1 . 0

- Problem statement
- Features of the app
- Fitcine Token system

HOW WILL WE USE BLOCKCHAIN ?

FITCINE APP



FITCINE

DECENTRALIZED WEB APPLICATION

TRUFFLE

METAMASK

- Ganache
- Truffle
- Drizzle
- Metamask
- Solidity - Smart Contracts
- Ethereum blockchain

drizzle

Ganache

solc

Programming
language
to write smart
contracts

mocha

JavaScript test
framework

ganache-cli

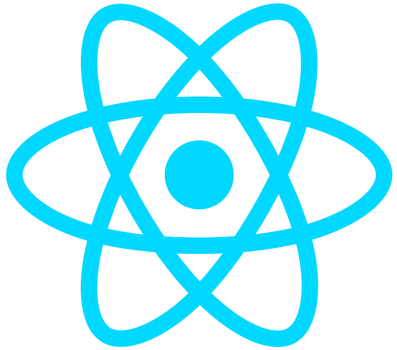
Local Ethereum
Test Network

web3

Ethereum JavaScript
API that
connects to the Generic
JSON RPC spec.

truffle-hdwallet-provider

The Truffle HDWallet Provider is a convenient and easy to configure network connection to ethereum through infura.io

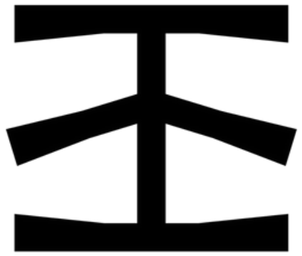


React

JavaScript library for creating user interfaces

Next JS

JavaScript framework to build server-side rendering and static web application using React

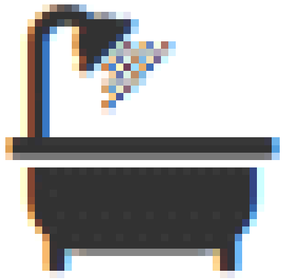


Infura

Provides instant, scalable API access to the Ethereum and IPFS networks.

Etherscan

Block Explorer and Analytics Platform for Ethereum, a decentralized smart contracts platform.



Rinkeby Testnet

Test network for developer to run tests for their application or software

AFTER THE LAST EVALUATION

- Deployed the app on rinkeby ethereum test network which is the final step to get funding from investor and to check using a real ethereum blockchain (https://www.rinkeby.io/#stats)

- Created React Front End and deployed the app on Node and deployed the Smart Contracts on a node backend server

- Created Milestone wise delivery and enabled the writing checking on a block chain by connecting the metamask api and Using Etherscan

- Connected the app to an Ethereum and IPFS API via Web3.0 to see the requests sent to and from the app(https://infura.io/)

- App Ready for deployment and added on to the white paper for publishing

DEMO TIME

C H A L L E N G E S

- Protecting Data Privacy when checking for funding
- Recent breach of ERC-20 TOKENS
- 51% percent attack
- Lack of documentation for development frameworks

thank you