

We are building a smart contract using solidity (prog. lang. of ethereum)

- Next videos on ethereum blockchain and IPFS.

Dependancies →

- ① Ethereum →
 - ② Polygon → gas fee is high on ethereum
 - ② Transaction time is slow because network is congested by amt. of data on network.
- ↓
separate blockchain (not ethereum)
operates via proof of stake consensus mechanism

At every set interval there is a checkpoint where polygon will send all trans. to eth. eth. will then validate all the transactions that happened on polygon.

- ③ Truffle → helps in building smart contracts for ethereum easily.
- ④ Ganache → test block chain used to test app. before deploying it
- ⑤ Metamask → browser extension. that allows us to keep a wallet in browser and interact with any apps in browser
- ⑥ IPFS → Storage space on ethereum block chain is limited.
∴ IPFS → it is not a block chain.

It is a distributed hash table. All the files uploaded to IPFS instead of being stored on server, they are split into many multiple files and spread across the network.

- ⑦ Fleek → to interact with IPFS. It is a hosting platform that uses IPFS on the backend.

Folders → Truffle is framework for building dApps. It has 5 folders →

- ① migrations → sets of js files that tells eth. how to deploy solidity contract.

- ② public → index.html

- ③ src → where we store contracts & APP's abis

Creating DApp →

- ① Truffle init
- ② npm i create-react-app
- ③ npm create-react-app client
folder structure photo in phone
- ④ truffle config.js →
67 → development port: 7545
53 → contracts-build-directory
: " ".
- ⑤ truffle migrate --reset
- ⑥ App.js → HTTP Provider →
Ganache rpc server URL.

① npm install -g truffle

② truffle -version

③ truffle init → creates
contracts, migrations versions.

④ truffle compile

⑤ truffle migrate → deploy
on ganache or
something
etc.

truffle
config.js

line → 67 (development)

port: 7545

npm i dotenv.
config.js (85, 43)