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Web3 Javascript API Basics

READING TASK | 9

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Web3 Javascript API Basics

- Web3 JS Overview
    - web3.js is a collection of libraries that allow you to interact with a local or remote ethereum node using HTTP, IPC, or WebSocket.
    - Web3.js enables you to develop clients that interact with the Ethereum Blockchain. It is a collection of libraries that allow you to perform actions like sending Ether from one account to another, reading and writing data from smart contracts, creating smart contracts, and so much more!

- Installing and running Web3
- Web3 Version & Node Status API
    - https://web3js.readthedocs.io/en/v1.7.0/getting-started.html#adding-web3
- Web3 Workbench - Sample DAPP
    - https://medium.com/coinmonks/how-to-make-dapp-using-solidity-and-web3js-1c758628033
- Setup web3 and connect to the node
    - https://ethereum.org/lt/developers/tutorials/set-up-web3js-to-use-ethereum-in-javascript/
- Account list and balances API
    - https://web3js.readthedocs.io/en/v1.2.0/web3-eth.html?highlight=getaccounts#getaccounts
    - https://coderrocketfuel.com/article/get-the-ether-balance-for-an-ethereum-address-with-web3-js
- Account unlocking and sending transaction API
    - Lock/UnLock accounts
        - https://web3js.readthedocs.io/en/v1.2.11/web3-eth-personal.html#lockaccount
        - https://web3js.readthedocs.io/en/v1.2.11/web3-eth-personal.html#unlockaccount
    - Send ethers to different accounts

- https://codeforgeek.com/how-to-send-ethereum-with-node-and-web3/
  - Get the balances of the accounts
- https://web3js.readthedocs.io/en/v1.2.0/web3-eth.html?highlight=getaccounts#sendtransaction
- https://www.youtube.com/watch?v=t3wM5903ty0&t=1007s