



VJTI TRANSCRIPTS



GANACHE

Ganache is a personal blockchain for Ethereum development you can use to deploy contracts, develop your applications, and run tests.

It is available as both a desktop application as well as a command-line tool (formerly known as the TestRPC). Ganache is available for Windows, Mac, and Linux.



Ganache

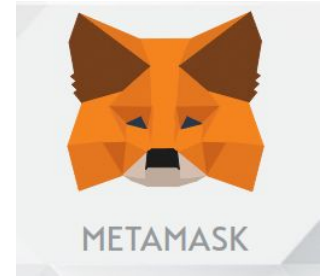
WEB3.JS



web3.js is a collection of libraries which allow you to interact with a local or remote ethereum node, using a HTTP or IPC connection.

The web3-eth is for the ethereum blockchain and smart contracts.

METAMASK



MetaMask is a browser extension that acts as a bridge between internet browsers, Ethereum, Dapps built on Ethereum.

It enables users to execute Ethereum dApps in their internet browser directly without running a full Ethereum node. MetaMask allows users to store, send, receive, and facilitate interactions with the Ethereum network.

MetaMask is a web-browser extension for Google Chrome, Opera, Firefox, and Brave.

GitHub

<https://github.com/jcs98/VJTI-Transcripts>

Setup

- Run ganache
- Compile the contract on remix using the byzantium compiler version
- For deployment select Web3provider in Environment as <http://localhost:7545>
- Paste the deployed contract address in app.js as the contract address
- In Metamask for wallet seed, enter the mnemonic that is displayed in Ganache
- In Metamask save a custom RPC network as <http://127.0.0.1:7545>
- run live-server in the root folder

References

- [Web3.js Docs](#)
- [Building a simple DApp](#)
- [Using Ganache and Metamask](#)

For an extended version using web3.py, see [CertiChain](#)