DJM_dApps

By
Dave - Joe - Miguel

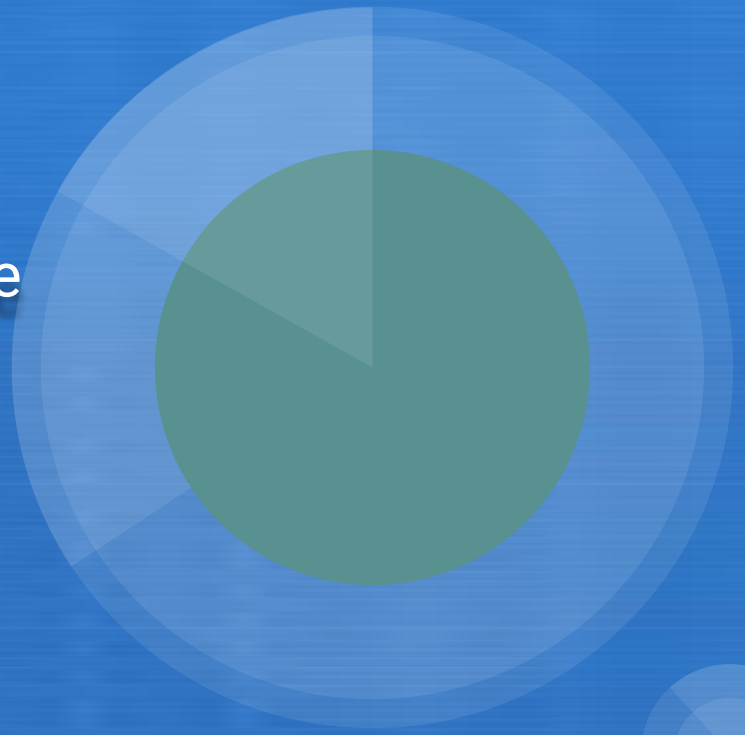
https://shawry6.github.io/djm_dapps

Motivation & Summary

- **DJM_dApps**
  - Smart Contracts transacting on the Ethereum Blockchain
  - This is a governance process which enables any group of people to agree on anything imaginable. This is achieved through the following steps:
    1. **Proposal** of Ideas submitted on the blockchain
    2. **Voting** for Proposals by the group members
    3. **Bidding** on a Winning Proposal by Suppliers
    4. **Contracting** the Winning Bidder to fulfill the Winning Proposal by the Chairperson/s of the group.

Technologies

- Written in the Solidity programming language
- HTML and Javascript for UIs
- hvPlot for statistics



Installation Guide

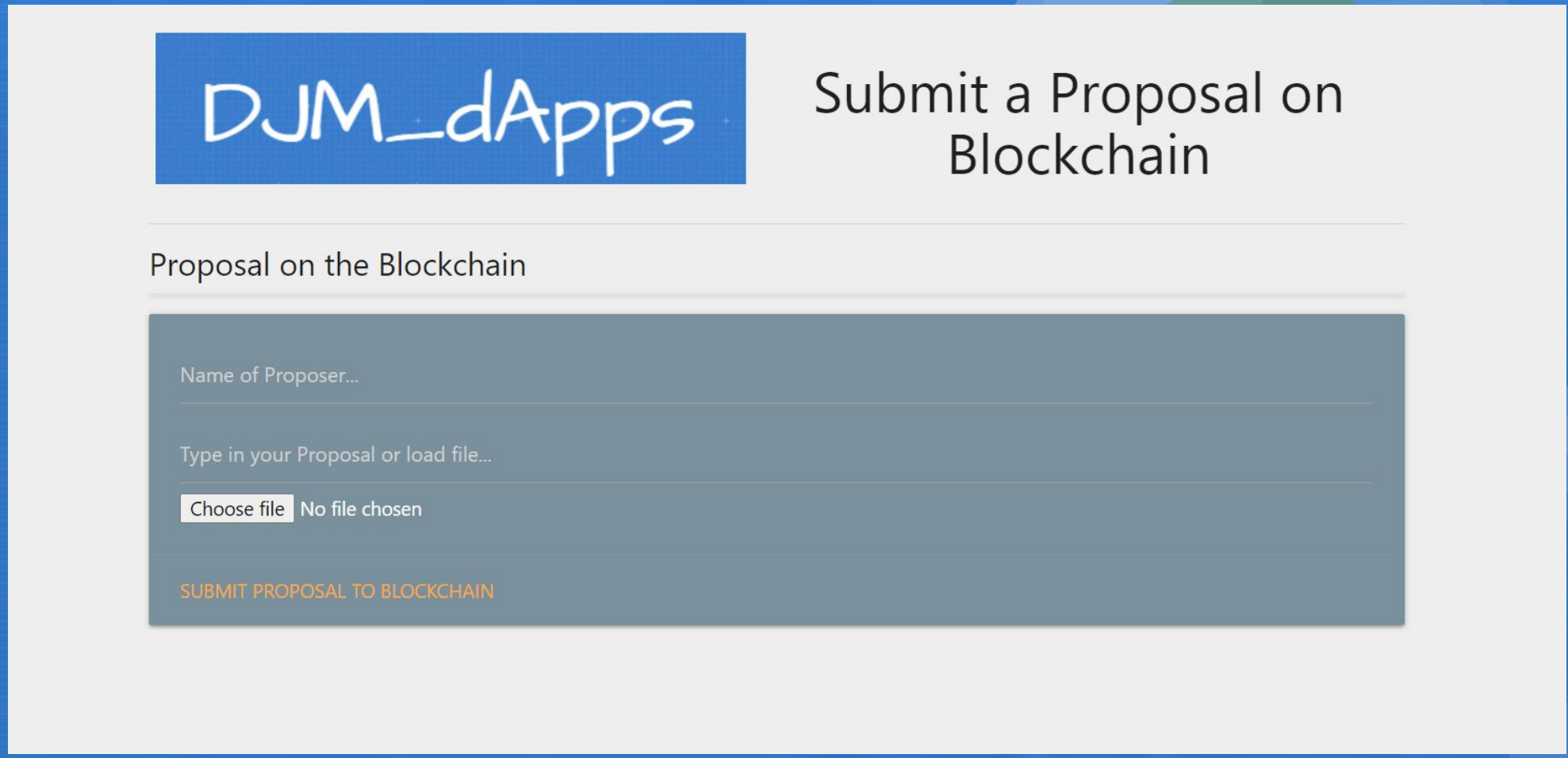
To transact with DJM_dApps you'll need:

- A digital wallet with Ethereum to transact. We recommend Metamask.
- Compatible browser. We recommend Google Chrome.
- Pinata to view blockchain submissions

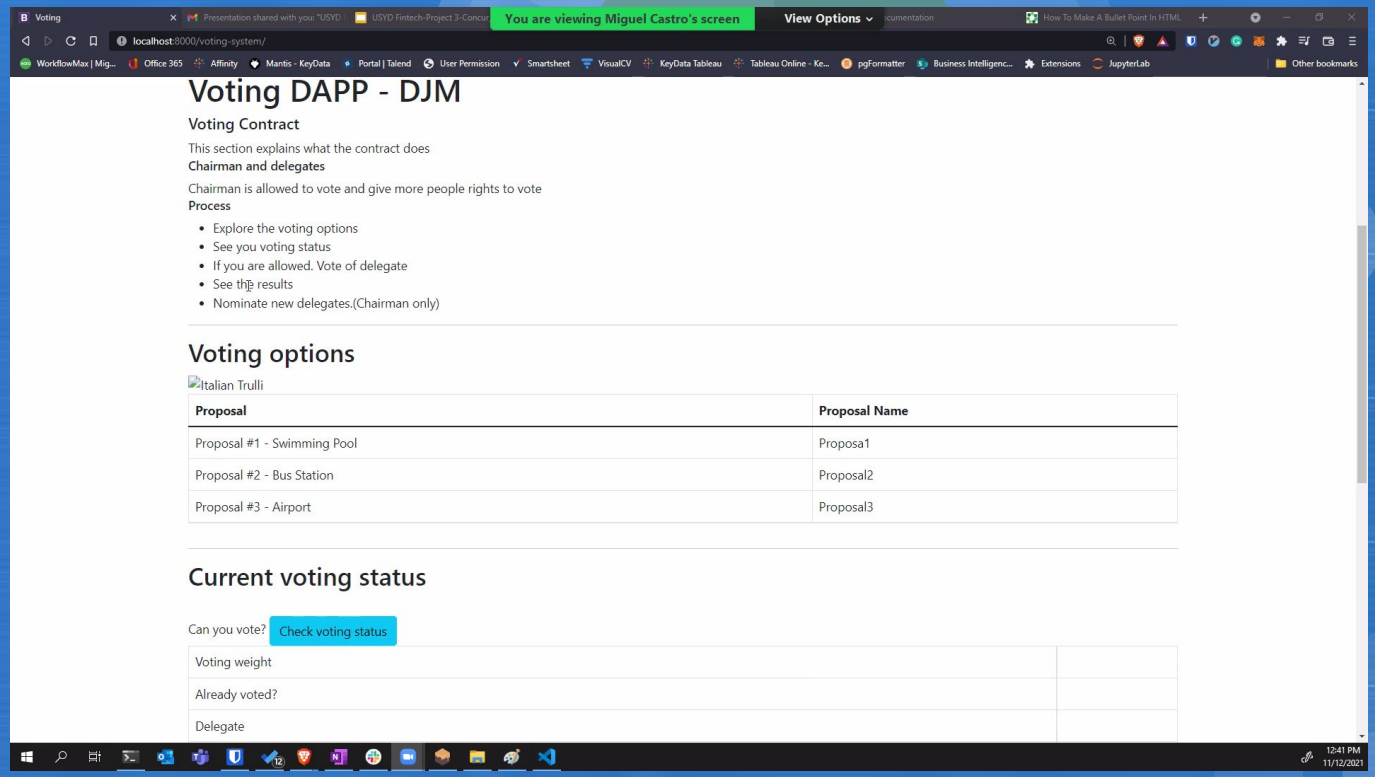
For the geeks:

- To compile and deploy DJM_dApps we used and tested with Remix, Ganache and Metamask

Joe's presentation of the Proposal dApp

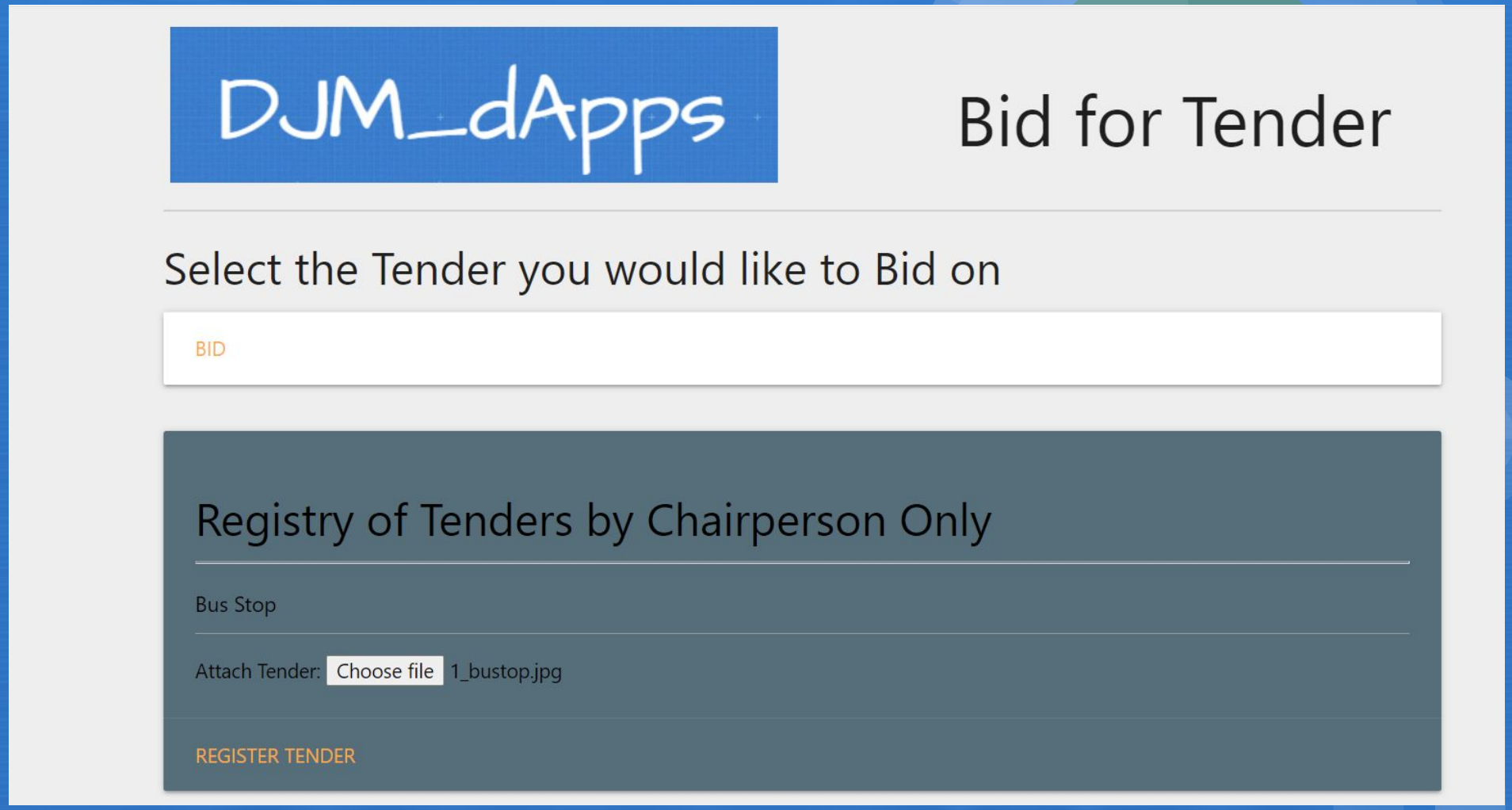


Miguel's presentation of the Voting dApp



DJM_dApps

Dave's presentation of the Voting dApp



Joe's presentation of the Contract dApp

DJM_dApps

Submit a Contract on Blockchain

Contract on Blockchain

Contract Name...

Type in your Contract or load file...

Choose file No file chosen

Encrypt / Decrypt

SUBMIT CONTRACT TO BLOCKCHAIN

Issues / Improvements

- The User GUI involves a whole new world of coding which we had to quickly adapt to. There are many aspects that can be improved here with better knowledge of UI/UXs.
- The efficiency of transactions needs to be improved. The process of coding within solidity, testing and transacting with Ganache and Metamask with UIs in Javascript and html then pushing submissions to the IPFS via Pinata.

Useful Resources

- Ethers.js
  - https://docs.ethers.io/v5/
- Plotly
  - https://plotly.com/javascript/getting-started/#start-plotting
- YouTube
  - www.youtube.com
- Remix
  - www.remix.ethereum.org
- OpenZepplin
  - https://openzeppelin.com/

Questions

DJM_dApps