

DJM_dApps

By
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[HTTPS://SHAWRY6.GITHUB.IO/DJM_DAPPS](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

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Submit a Proposal on
Blockchain

Proposal on the Blockchain

Name of Proposer...

Type in your Proposal or load file...

Choose file No file chosen

SUBMIT PROPOSAL TO BLOCKCHAIN

Miguel's presentation of the Voting dApp



Voting | Presentation shared with you: USYD | USYD Fintech-Project 3-Concur | You are viewing Miguel Castro's screen | View Options | Documentation | How To Make A Bullet Point In HTML

localhost:8000/voting-system/ | WorkflowMax | Mig... | Office 365 | Affinity | Mantis - KeyData | Portal | Talent | User Permission | Smartsheet | VisualCV | KeyData Tableau | Tableau Online - Ke... | pgFormatter | Business Intelligenc... | Extensions | JupyterLab | Other bookmarks

Voting DAPP - DJM

Voting Contract

This section explains what the contract does

Chairman and delegates

Chairman is allowed to vote and give more people rights to vote

Process

- Explore the voting options
- See you voting status
- If you are allowed, Vote of delegate
- See the results
- Nominate new delegates.(Chairman only)

Voting options

Italian Trulli

Proposal	Proposal Name
Proposal #1 - Swimming Pool	Proposa1
Proposal #2 - Bus Station	Proposal2
Proposal #3 - Airport	Proposal3

Current voting status

Can you vote? [Check voting status](#)

Voting weight	
Already voted?	
Delegate	

12:41 PM
11/12/2021

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Dave's presentation of the Voting dApp

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Bid for Tender

Select the Tender you would like to Bid on

BID

Registry of Tenders by Chairperson Only

Bus Stop

Attach Tender: Choose file 1_bustop.jpg

REGISTER TENDER

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Joe's presentation of the Contract dApp

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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

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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
- OpenZeppelin
 - <https://openzeppelin.com/>

Questions

