

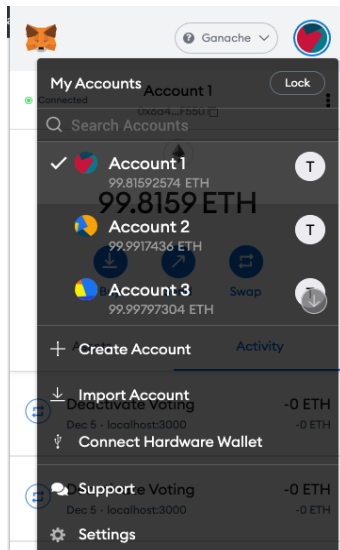
## Smart Contract Deployment

*Assuming you have ganache downloaded and running*

1. Unzip the downloaded file
2. Run 'truffle compile'
3. Run 'truffle migrate -reset'
4. Run 'npm install'
5. Run 'npm start'
6. Navigate to 'http://localhost:3000/'

## Usage Instructions

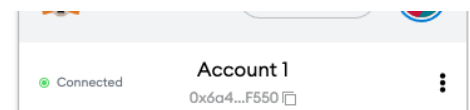
1. Connect all your accounts from ganache which should be shown in your metamask wallet with the web.



2. Your account address and respective NBBL Token balance should be displayed once connected properly and page is refreshed.

**Account=0x6a4A6Ba0C98664A58A4fA8A8D29aFda14e36F550**

**nbb!TokenBalance=66000000000000000000000000000000**



3. With account1 being the chairperson who deployed the contract, activate the voting by clicking the **Activate Voting!** Button, and refresh the page to see the change in voting state.

**Voting State = Activated**

4. Now change to account2 and insert bottles. For example, type 100 in the input text field under Insert Bottles and click **insert!** Button. Refresh the page to see the change in the number of bottles

Account=0x82aeeab24405f9ea36c1bC31ae88707e330d9aDF

nbbITokenBalance=0

Bottles = 0

Rank = 0

Voting State = Activated

TotalVotes = 0

Winner = 0

Insert Bottles

100

Insert!

Rank Up

0

Rank Up!

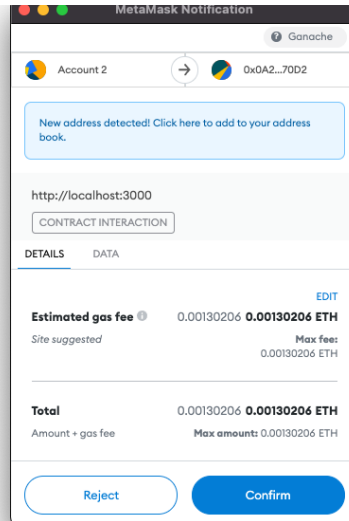
Activate Voting! Deactivate Voting!

Voting

OrgNum tokenAMt

Vote

Send to non-profit organization



Account=0x82aeeab24405f9ea36c1bC31ae88707e330d9aDF

nbbITokenBalance=0

Bottles = 100

- Rank up by typing the desired ranks. For example, type in 1 to rank up by 1 rank and click the **Rank Up!** Button. Refresh the page to see the change in rank and the number of bottles used.

Account=0x82aeeab24405f9ea36c1bC31ae88707e330d9aDF

nbbITokenBalance=0

Bottles = 100

Rank = 0

Voting State = Activated

TotalVotes = 0

Winner = 0

Insert Bottles

0

Insert!

Rank Up

1

Rank Up!

Activate Voting! Deactivate Voting!

Voting

OrgNum tokenAMt

Vote

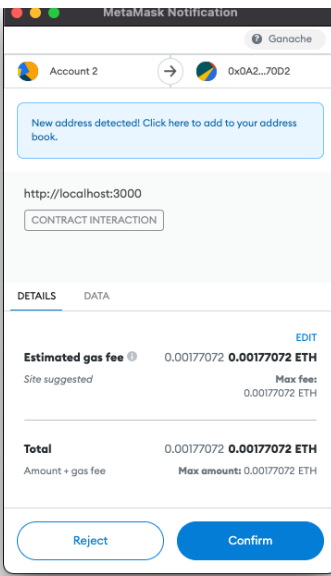
Send to non-profit organization

Who is the winner?

Get Tokens

0

Get NBBL Tokens!



Account=0x82aeeab24405f9ea36c1bC31ae88707e330d9aDF

nbbITokenBalance=0

Bottles = 95

Rank = 1

6. Now let's turn some bottles into NBBL tokens. Account2 has rank1, so the double the requested amount of tokens should be given to account2. For example, by typing 10 under the Get Tokens text field and clicking **Get NBBL Tokens!** Button, account2 should have 20 nbbltokenbalance after a page refresh.

Account=0x82aeeab24405f9ea36c1bC31ae88707e330d9aDF

nbblTokenBalance=0

Bottles = 95

Rank = 1

Voting State = Activated

TotalVotes = 0

Winner = 0

Insert Bottles

0

Insert!

Rank Up

0

Rank Up!

Activate Voting!

Deactivate Voting!

Voting

OrgNum

tokenAMt

Vote

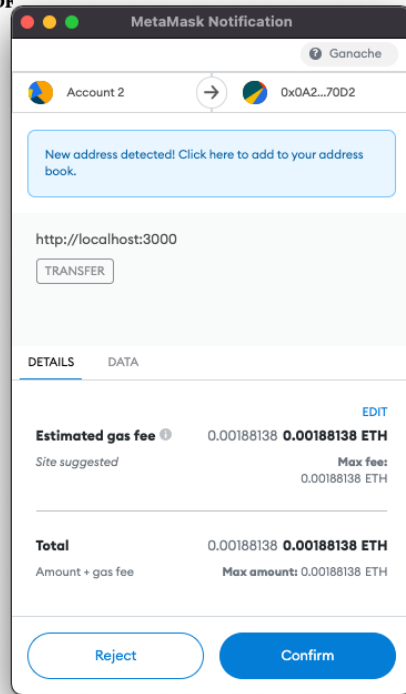
Send to non-profit organization

Who is the winner?

Get Tokens

10

Get NBBL Tokens!



Account=0x82aeeab24405f9ea36c1bC31ae88707e330d9aDF

nbblTokenBalance=20

Bottles = 85

Rank = 1

7. Now let's use those tokens to donate to desired organization though voting system. For example type in 0 under the organization number and 10 under tokenAmt and click **vote** button. Refresh the page to see the change in total number of votes which should be 10 now.

**Account=0x82aeeab24405f9ea36c1bC31ae88707e330d9aDF**

**nbblTokenBalance=20**

**Bottles = 85**

**Rank = 1**

**Voting State = Activated**

**TotalVotes = 0**

**Winner = 0**

**Insert Bottles**

**Insert!**

**Rank Up**

**Rank Up!**

**Activate Voting!** **Deactivate Voting!**

**Voting**

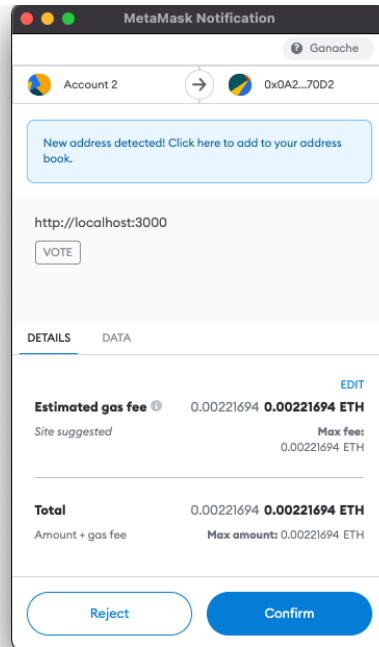
**Vote**

**Send to non-profit organization**

**Who is the winner?**

**Get Tokens**

**Get NBBL Tokens!**



**TotalVotes = 10**

8. Repeat the same process for account3 but donate 20 tokens to organization number 1.  
**Account=0x27b0405811899FA2771Acc882134c9A21075b97f**

**nbblTokenBalance=0**

**Bottles = 80**

**Rank = 0**

**Voting State = Activated**

**TotalVotes = 30**

Now, the total number of votes should be 30.

9. Change back to account1 and deactivate the voting by clicking the **Deactivate Voting!** Button

**Account=0x6a4A6Ba0C98664A58A4fA8A8D29aFda14e36F550**

**nbblTokenBalance=659999999999999999999999999975**

**Bottles = 0**

**Rank = 0**

**Voting State = Deactivated**

- Get NBBL Tokens!

- Winner = 1**