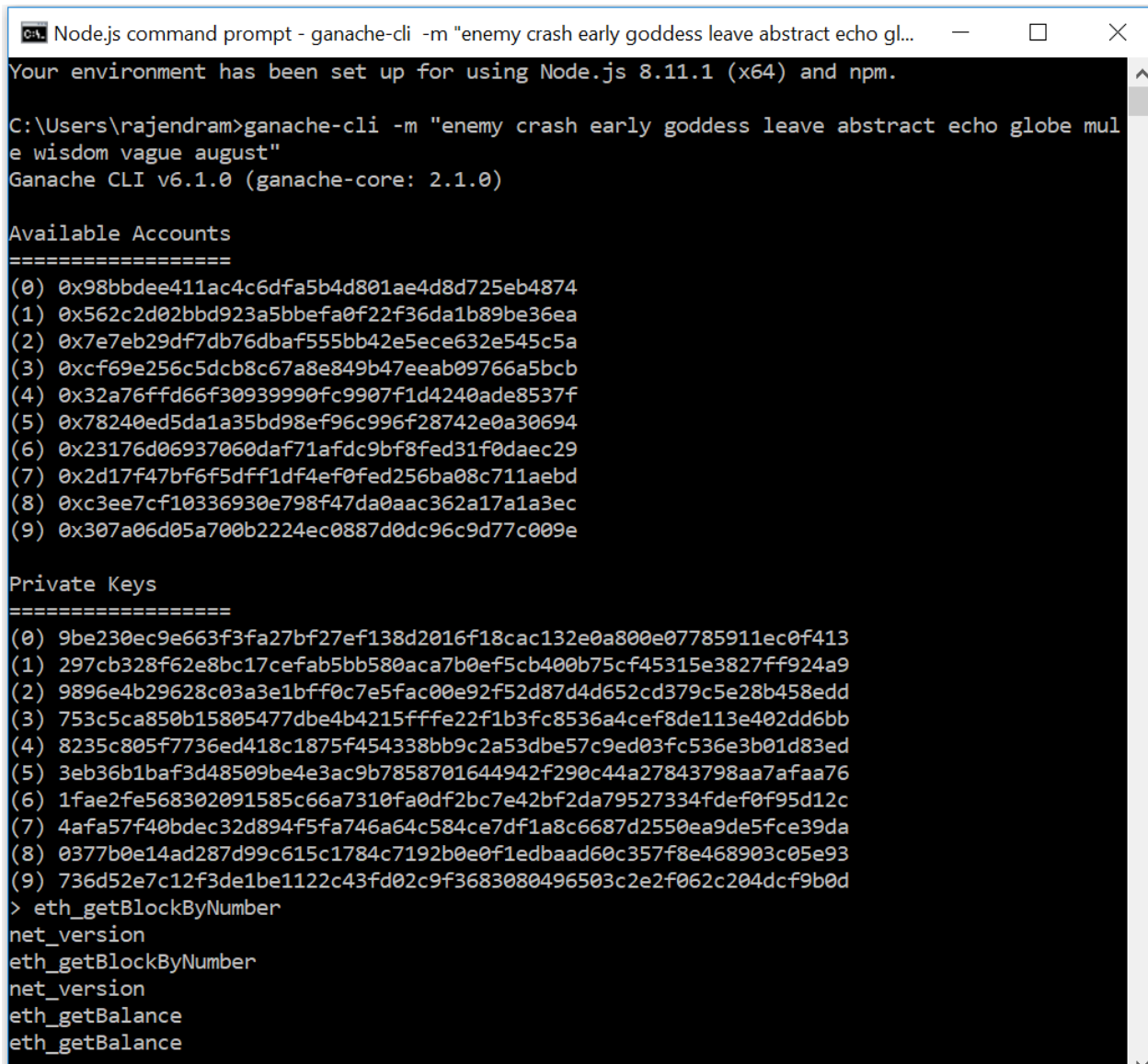


Using Open-Zepplin Library for token transferring

Run below command

Ganache-cli

Use ganache-cli -m "....." if you want to use existing mnemonics



```

Node.js command prompt - ganache-cli -m "enemy crash early goddess leave abstract echo gl...
Your environment has been set up for using Node.js 8.11.1 (x64) and npm.

C:\Users\rajendram>ganache-cli -m "enemy crash early goddess leave abstract echo globe mul
e wisdom vague august"
Ganache CLI v6.1.0 (ganache-core: 2.1.0)

Available Accounts
=====
(0) 0x98bbdee411ac4c6dfa5b4d801ae4d8d725eb4874
(1) 0x562c2d02bbd923a5bbefa0f22f36da1b89be36ea
(2) 0x7e7eb29df7db76dbaf555bb42e5ece632e545c5a
(3) 0xc69e256c5dcb8c67a8e849b47eeab09766a5bcb
(4) 0x32a76ffd66f30939990fc9907f1d4240ade8537f
(5) 0x78240ed5da1a35bd98ef96c996f28742e0a30694
(6) 0x23176d06937060daf71afdc9bf8fed31f0daec29
(7) 0x2d17f47bf6f5dfff1df4ef0fed256ba08c711aebd
(8) 0xc3ee7cf10336930e798f47da0aac362a17a1a3ec
(9) 0x307a06d05a700b2224ec0887d0dc96c9d77c009e

Private Keys
=====
(0) 9be230ec9e663f3fa27bf27ef138d2016f18cac132e0a800e07785911ec0f413
(1) 297cb328f62e8bc17cefab5bb580aca7b0ef5cb400b75cf45315e3827ff924a9
(2) 9896e4b29628c03a3e1bff0c7e5fac00e92f52d87d4d652cd379c5e28b458edd
(3) 753c5ca850b15805477dbe4b4215fffe22f1b3fc8536a4cef8de113e402dd6bb
(4) 8235c805f7736ed418c1875f454338bb9c2a53dbe57c9ed03fc536e3b01d83ed
(5) 3eb36b1baf3d48509be4e3ac9b7858701644942f290c44a27843798aa7afaa76
(6) 1fae2fe568302091585c66a7310fa0df2bc7e42bf2da79527334fdef0f95d12c
(7) 4afa57f40bdec32d894f5fa746a64c584ce7df1a8c6687d2550ea9de5fce39da
(8) 0377b0e14ad287d99c615c1784c7192b0e0f1edbaad60c357f8e468903c05e93
(9) 736d52e7c12f3de1be1122c43fd02c9f3683080496503c2e2f062c204dcf9b0d
> eth_getBlockByNumber
net_version
eth_getBlockByNumber
net_version
eth_getBalance
eth_getBalance

```

Starting another terminal and compile, migrate and run application

If you are using Linux or Mac OS, use following command

Truffle compile

Truffle migrate

If you are using Node.js command prompt in windows

Truffle.cmd compile

Truffle.cmd migrate

```
Node.js command prompt
Your environment has been set up for using Node.js 8.11.1 (x64) and npm.

C:\Users\rajendram>d:

D:\>cd BLOCKCHAIN

D:\BLOCKCHAIN>cd oz_workspace

D:\BLOCKCHAIN\oz_workspace>truffle.cmd compile

D:\BLOCKCHAIN\oz_workspace>truffle.cmd migrate
Using network 'development'.

Running migration: 1_initial_migration.js
  Deploying Migrations...
    ... 0xac9103aaa39db45eb0f9269d0b0e269f989d97699c0eff2c37ad6a208bb528ee
  Migrations: 0x94856b598696e6b9ca7067f5a3ee650aefd300a3
Saving successful migration to network...
    ... 0x875c71842c0527b62953e25b32936d2cc1a6809122585d0553ccb4b63f99eb6b
Saving artifacts...
Running migration: 2_deploy_contracts.js
  Deploying NiraToken...
    ... 0xde601c4cf699741d90cd16d6ea463bca14d1e3b994b9c9267cab7e15bd8becc5
  NiraToken: 0x1b0b83fa1e7a5734e68256d7045331a00ad26232
Saving successful migration to network...
    ... 0x98602acb01993a8f551f7f5ec0a23078350912f9e8015d11e3cd3bc7f9804323
Saving artifacts...

D:\BLOCKCHAIN\oz_workspace>
```

DApps running

npm run dev

NIRA Token

NIRA Token Wallet

Current Balance: 7000000 NIRA

Address:
0x98bbdee411ac4c6dfa5b4d801ae4d8d725eb4874

Transfer

Transfer

Transfer Tokens to Ethereum Address

NIRA Token

NIRA Token Wallet

Current Balance: 7000000 NIRA

Address:
0x98bbdee411ac4c6dfa5b4d801ae4d8d725eb4874

Transfer

0x7e7eb29df7db76dbaf555bb42e5ece632e545c

2500

Transfer

Transferring tokens using MetaMask

NIRA Token

MetaMask Notification

CONFIRM TRANSACTION

Private Network

Account 1

98bbdE...4874

99.814 ETH

69955.80 USD

>

1b0B83...6232

Amount

0 ETH

0.00 USD

Gas Limit

77449

UNITS

Gas Price

11

GWEI

Max Transaction Fee

0.000851 ETH

0.60 USD

Max Total

0.000851 ETH

0.60 USD

Data included: 68 bytes

RESET

SUBMIT

REJECT

NIRA Token Wallet

Current Balance: 7000000 NIRA

Address:

0x98bbdee411ac4c6dfa5b4d801ae4d8d725eb4874

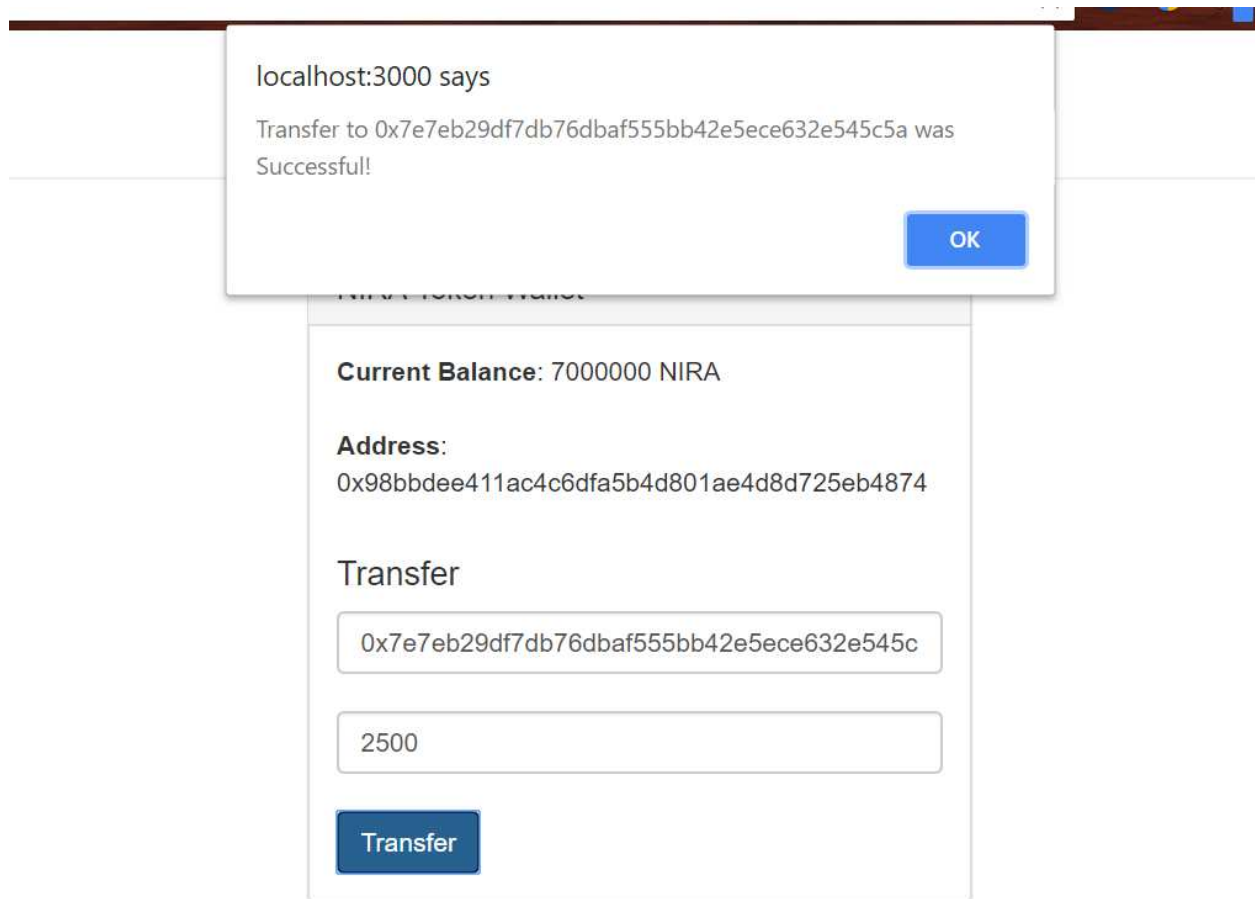
Transfer

0x7e7eb29df7db76dbaf555bb42e5ece632e545c

2500

Transfer

Transfer confirmation



The image shows a web application interface with a modal dialog box for transfer confirmation. The dialog box, titled 'localhost:3000 says', contains the text 'Transfer to 0x7e7eb29df7db76dbaf555bb42e5ece632e545c5a was Successful!' and an 'OK' button. In the background, a 'NIRA Token Transfer' form is visible. The form displays the 'Current Balance' as 7000000 NIRA and the user's 'Address' as 0x98bbdee411ac4c6dfa5b4d801ae4d8d725eb4874. It includes a 'Transfer' section with an input field containing the recipient address '0x7e7eb29df7db76dbaf555bb42e5ece632e545c' and another input field containing the amount '2500'. A 'Transfer' button is located at the bottom of the form.

localhost:3000 says

Transfer to 0x7e7eb29df7db76dbaf555bb42e5ece632e545c5a was Successful!

OK

Current Balance: 7000000 NIRA

Address:
0x98bbdee411ac4c6dfa5b4d801ae4d8d725eb4874

Transfer

0x7e7eb29df7db76dbaf555bb42e5ece632e545c

2500

Transfer

Remaining Token Balance

NIRA Token

NIRA Token Wallet

Current Balance: 6997500 NIRA

Address:
0x98bbdee411ac4c6dfa5b4d801ae4d8d725eb4874

Transfer

0x7e7eb29df7db76dbaf555bb42e5ece632e545c

2500

Transfer