

NFT Smart Contract DAPP Deployment Steps

By:

Maryam Suhail - 000516079

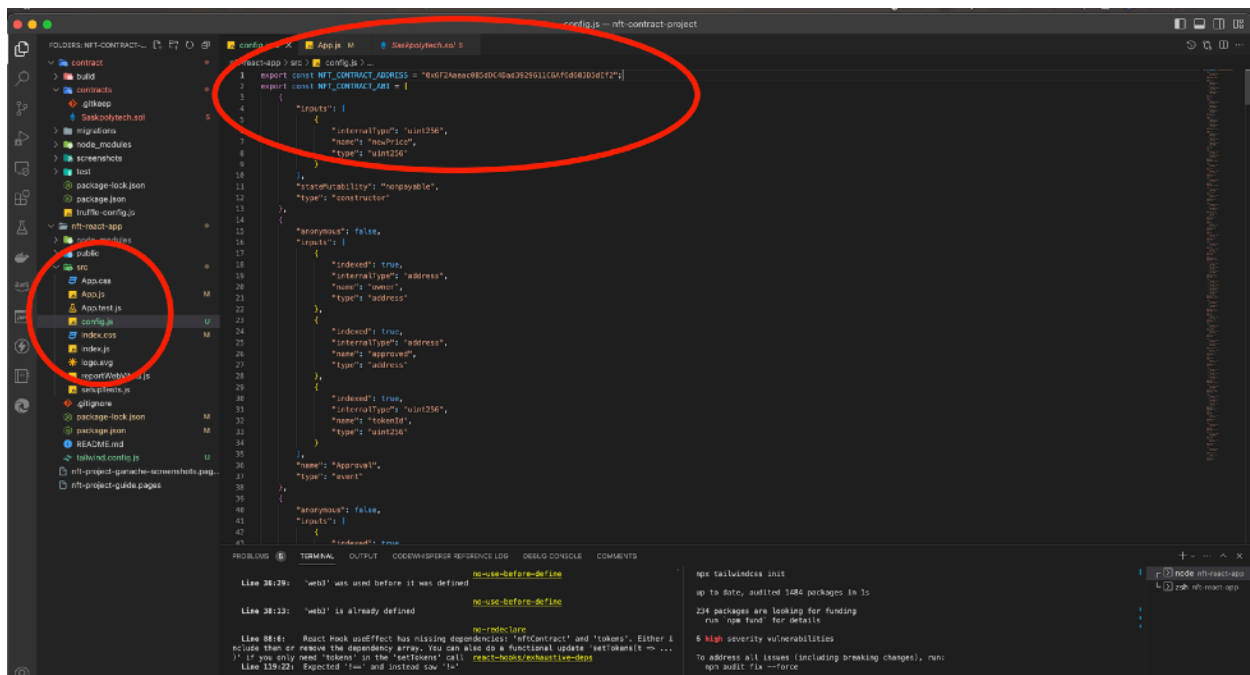
Danish Yasin - 000508255

Step 1 (Publish Contract on Ganache):

- Deploy the smart contract through ganache found in the `contract` directory.
- You can use the `truffle deploy` command to deploy it after starting Ganache.
- Copy the contract address

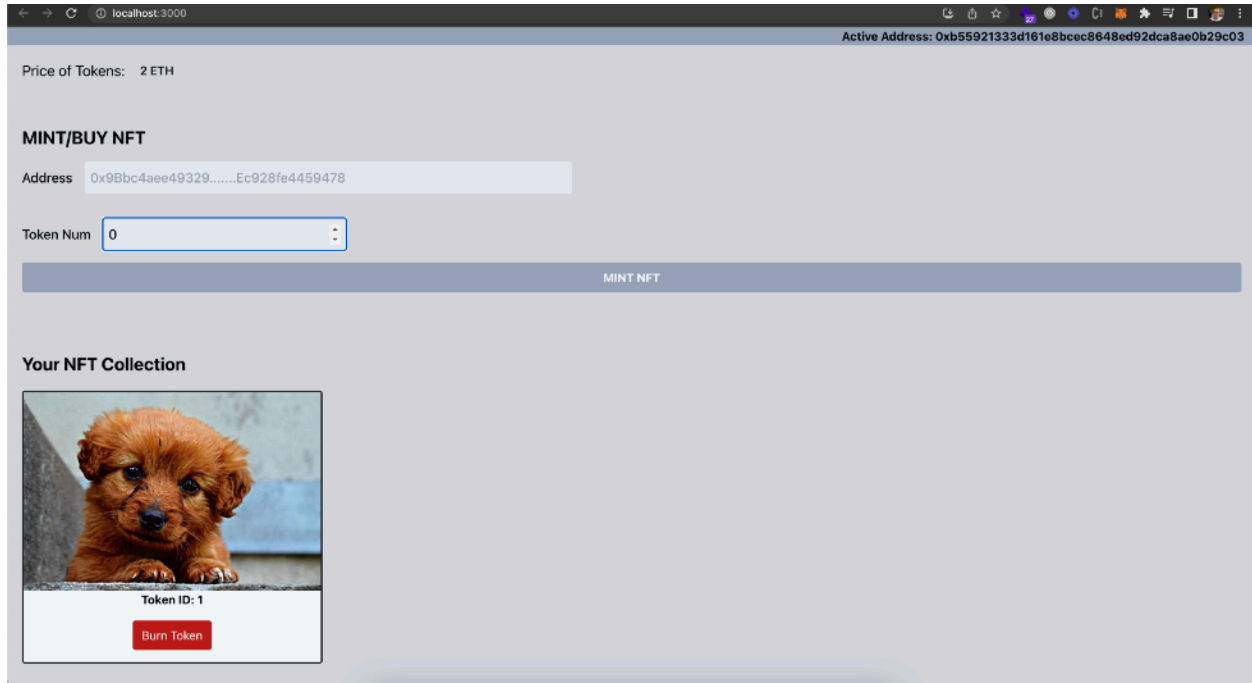
Step 2 (Paste Contract Address):

- Copy the contract address into the `src/config.js` file of the React application found in `nft-react-app` directory as highlighted in screenshot below:



Step 3 (Run the React App):

- open a terminal in the react app directory and run `npm install` command
- After installation of the npm modules is finished, run the react app by running the `npm run start` command in the same terminal.
- The react app should be live on <http://localhost:3000/>



Testing Mint Functionality

- Get an account from Ganache and import it into metamask by accessing it's key through Ganache.
- IMPORTANT: select the 2nd account because the 1st account is used for deploying the smart contract.

Ganache

ACCOUNTS

BLOCKS

TRANSACTIONS

CONTRACTS

EVENTS

LOGS

SEARCH FOR BLOCK NUMBERS OR TX HASHES

CURRENT BLOCK8

GAS PRICE20000000000

GAS LIMIT6721975

HARDFORKMERGE

NETWORK ID5777

RPC SERVERHTTP://127.0.0.1:7545

MINING STATUSAUTOMINING

WORKSPACE QUICKSTART

SAVE

SWITCH

MNEMONICunable film erode reform unaware useless gown surface degree oppose park once

HD PATHm44'60'0'0account_index

ADDRESS0xb55921333d161E8BcEC8648Ed92dCA8aE0b29c03

BALANCE99.99 ETH

TX COUNT7

INDEX0

ADDRESS0x6E395C57cD0504e8f4c5A7eB7C34008317527dB4

BALANCE100.00 ETH

TX COUNT1

INDEX1

ADDRESS0x9f08010B889FF7B4A92B34075dc33aC917e290A2

BALANCE100.00 ETH

TX COUNT0

INDEX2

ADDRESS0x5f64246C8d46967e3458A1207f87AfD7a70889FA

BALANCE100.00 ETH

TX COUNT0

INDEX3

ADDRESS0x422753A39fE6A0B8b65c6ed4103Be3Ff8B2B5251

BALANCE100.00 ETH

TX COUNT0

INDEX4

ADDRESS0xFD4E6ae9f0B358f92964Bd575F8d95E396C4024B

BALANCE100.00 ETH

TX COUNT0

INDEX5

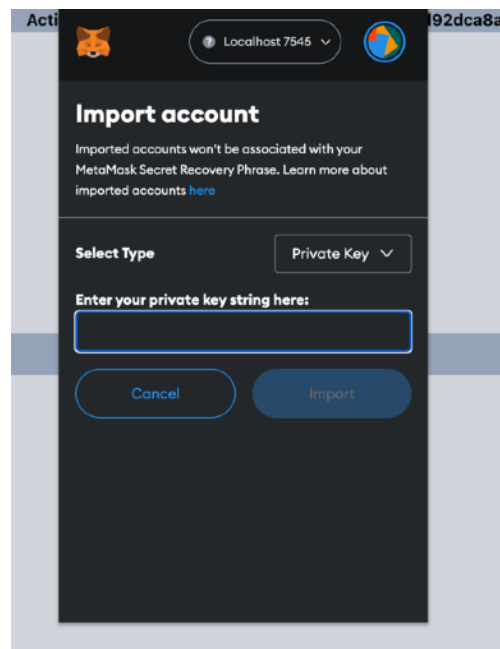
ADDRESS0x8c709D52F5afeFe4391E516fe59c47Df028414b7

BALANCE100.00 ETH

TX COUNT0

INDEX6

- To import account into metamask, go to metamask options and click on import account. Get the keys from Ganache through the key icon highlighted below.



Acti

Localhost 7545

Import account

Imported accounts won't be associated with your MetaMask Secret Recovery Phrase. Learn more about imported accounts [here](#)

Select Type Private Key

Enter your private key string here:

Cancel Import

- You should be able to see your active address on top of the app screen.
- Now copy another wallet address **from** Ganache and input it into the address field on the app
- Select the token num, do not select 0 here.
- Press Mint NFT.

To view the NFT:

- Select the account you minted to in the previous step on your metamask. This account will become the live account on the app and you'll see the address on top.
- The NFTs will automatically load.

To burn NFT:

- You will have to first view the NFT.
- There is burn token button beneath the NFT, click it.
- The NFT is burned

Update Token URI:

- To update token URI, select the contract owner address on metamask, it is the first account on Ganache.
- Put in the tokenURI in the input field
- Click on Update Token URI button and it will update the token URI