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Ethereum 2018 Developer Program Final Project – Online-Marketplace

What does the project do?

This is an Ethereum Blockchain Dapp for an online marketplace.

The project is developed on a VirtualBox VM running Ubuntu 16.04.

You may

* Add/Remove Admins
* Add/Remove Store Owners
* Open/Close Stores
* Get Store/StoreOwners
* ChangeStoreowners
* etc.

How to set it up?

To interact with this Dapp, you will need the following tools...

* npm Node.js
* Ganache: npm install -g ganache-cli
* Truffle: npm install -g truffle
* All npm dependencies for the Dapp
* Metamask

Smart Contract Migration

# Make sure you are in the marketplace directory

# Run this:

truffle migrate --reset

Smart Contract Testing

# Move to the test directory

# Launch the tests

truffle test

Running the Dapp

# Install dependencies

npm install

# Run Dapp

npm run dev

Interacting with the Dapp

1. Copy the seed phrase from the ganache-gui
2. Open Metamask in your browser and make sure the localhost:8545 network is selected
3. Click the "Restore from seed phrase" link, paste in the seed phrase, enter start123 as the password, and click OK.
4. You can now either refresh the page manually or click the OK button on the error pop up.
5. If you are connected you should see "Admin" with an address, balance, and block number in the top right corner.
6. From here you are an admin. go to the "Add/Remove Store Owners" tab. Copy an account address from the ganache terminal, paste it into the text box, and click "Add". Metamask should prompt you for the transaction, hit "Add".
7. You should see the UI update with a new Store Owner. Copy the private key for this store owner from the ganache terminal, open Metamask, and import the account using the private key.
8. You should see the UI change from an Admin view to a Store Owner view.

Notes: deployed to Rinkeby through MetaMask with Ethereum address: 0x1057600E79D33f7c0ED05842c09e63D8c90b51D5