UDACITY

Sair

< Return to "Blockchain Developer" in the classroom

DISCUSS ON STUDENT HUB

Decentralized Star Notary

REVISÃO | REVISÃO DE CÓDIGO 1 | HISTORY

Meets Specifications

Great work 😄

Keep learning!

You are awesome :tada

Thank you for submitting your project, I enjoyed reviewing it

Suggestions

Try to follow this awesome twitter accounts related to blockchain:

VitalikButerin

https://twitter.com/VitalikButerin?ref_src=twsrc%5Etfw%7Ctwcamp%5Etweetembed%7Ctwterm%5E942032830896398336&ref_url=http%3A%2F%2Ffortune.com%2F2017%2F12%2F27%2Fbitcoin-twitter%2F

Brian Armstrong

https://twitter.com/brian_armstrong?ref_src=twsrc%5Etfw%7Ctwcamp%5Etweetembed%7Ctwterm%5E936081853840101376&ref_url=http%3A%2F%2Ffortune.com%2F2017%2F12%2F27%2Fbitcoin-twitter%2F

Videos

This is an excellent video: Multicoin Summit May 2018 Exploring Opportunities For Non Fungible Tokens

https://www.youtube.com/watch?v=nuD4DHJRRPQ

I want to share this amazing application of blockchain to CURE CANCER
https://www.youtube.com/watch?v=VwIji2rBdKU
https://www.youtube.com/watch?v=i66ccB4ShXU&t=509s

I want to share these awesome episodes from Udacity about blockchain https://www.udacity.com/built-on-blockchain

I wanted share this great video about Blockchain for Supply Chain Management https://www.youtube.com/watch?v=Z6HS1bSZzHk

I recommend this excellent video about the basics of Ethereum, to reinforce the fundamental concepts
https://www.youtube.com/watch?v=gjwr-7PgpN8

I want to share this interesting concept called Gitcoin, please check it https://gitcoin.co/ https://www.youtube.com/watch?time_continue=4&v=DJartWzDn0E

Add Smart Contract Functions

Add a name and a symbol to the starNotary tokens.
In the Starter Code (StarNotary.sol file) you implement:

```
// Implement Task 1 Add a name and symbol properties
// name: Is a short name to your token
// symbol: Is a short string like 'USD' -> 'American Dollar'
```

Add a function `lookUptokenIdToStarInfo`, that looks up the stars using the Token ID, and then returns the name of the star.

Explicitly label the visibility of functions and state variables. Functions can be specified as being external, public, internal or private.

https://solidity.readthedocs.io/en/v0.4.24/contracts.html#visibility-and-getters

Add a function called `exchangeStars`, so 2 users can exchange their star tokens. Do not worry about the price, just write code to exchange stars between users.

Great!!!

You implemented well the way to check if the coordinates already exist. I want to tell you about an interesting alternative. You can just use `tokenIdToStarInfo`. This could be done if you create a `tokenId` using the coordinates and you just check if a star with that `tokenId` already exists

Write a function to Transfer a Star. The function should transfer a star from the address of the caller. The function should accept 2 arguments, the address to transfer the star to, and the token ID of the star.

It would be better and simpler if the user did not have to submit the tokenId. Also, this could be a way of simplifying the code, because you could generate the token id using the star coordinates and this way you could check for the uniqueness of the coordinates without creating another mapping

This is a great article that talks about the difference of memory and storage, and how to use them
https://medium.com/coinmonks/what-the-hack-is-memory-and-storage-in-solidity-6b9e62577305

Add supporting Unit Tests

Tests for:

1) The token name and token symbol are added properly.

```
it('can add the star name and star symbol properly', async() => {

});
```

2) 2 users can exchange their stars.

```
it('lets 2 users exchange stars', async() => {

});
```

3) Stars Tokens can be transferred from one address to another.

```
it('lets a user transfer a star', async() => {

});
```

I really recommend reading this documentation so you can learn you testing to the next level !!!!
https://mochajs.org/

I want to share these great tutorials to help improve your solidity skills
https://medium.com/coinmonks/top-solidity-tutorials-4e7adcacced8

I want to share this cool tool called Mythril, that is a reversing and bug hunting framework for the Ethereum blockchain https://github.com/b-mueller/mythril/

Deploy your Contract to Rinkeby

`truffle-config.js` file should have settings to deploy the contract to the Rinkeby Public Network.

Infura should be used in the truffle-config.js file for deployment to Rinkeby.

Very good ⭐

Project submission includes a document (.md, .txt) that includes:

- Transaction ID
- Contract address

Hint: You can view Transaction ID and Contract ID from a blockchain explorer (e.g. Etherscan).
Example Contract ID:
https://rinkeby.etherscan.io/address/0xfb0720c0715e68f80c0c0437c9c491abfed9e7ab#code

Modify the front end of the DAPP

When you click on the button "Look Up a Star" the application shows in the status the Star information.

Excellent ⭐

BAIXAR PROJETO

1 COMENTÁRIOS DA REVISÃO DE CÓDIGO ›

RETORNAR