

Logout

PROJECT SPECIFICATION

Decentralized Star Notary

Add Smart Contract Functions

CRITERIA	MEETS SPECIFICATIONS
The smart contract tokens should have a name and a symbol.	 Add a name and a symbol to the starNotary tokens. In the Starter Code (StarNotary.sol file) you implement:
	<pre>// 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'</pre>
	Note: The project starter codes use solidity v0.4.21. Please ensure to write the constructors accordingly.

CRITERIA	MEETS SPECIFICATIONS
Implement the function: lookUptokenIdToStarInfo in StarNotary.sol file	Add a function lookUptokenIdToStarInfo, that looks up the stars using the Token ID, and then returns the name of the star.
<pre>// Implement Task 1 lookUp tokenIdToStarInfo function lookUptokenIdToSt arInfo (uint _tokenId) pub lic view returns (string m emory) { }</pre>	

CRITERIA	MEETS SPECIFICATIONS
Implement the function: exchangeStars in StarNotary.sol file.	 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. Check if the owner of _tokenId1 or _tokenId2 is in fact the sender in order to pass the star tokenId.
<pre>// Implement Task 1 Exchan ge Stars function function exchangeStars(uin t256 _tokenId1, uint256 _t okenId2) public {</pre>	
Implement the function transferStar in StarNotary.sol file.	 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. Check if the owner of _tokenId1 or _tokenId2 is in fact the sender in order to pass the star tokenId .
<pre>function transferStar(addr ess _to1, uint256 _tokenId) public {</pre>	pass the star tokento.
}	

Add supporting Unit Tests

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Add supporting Unit Tests in TestStarNotary.js file.	Tests for:
	1) The token name and token symbol are added properly.
	<pre>it('can add the star name and star symbol properly', async() => {</pre>
	});
	2) 2 users can exchange their stars.
	<pre>it('lets 2 users exchange stars', async() => {</pre>
	});
	3) Stars Tokens can be transferred from one address to another.
	<pre>it('lets a user transfer a star', async() => {</pre>
	<pre>});</pre>

Deploy your Contract to Rinkeby

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Deploy Your Contract to Public Test Network	Students must successfully deploy the 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.

Modify the front end of the DAPP

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Implement the frontend function lookUp in the index.js file.	When you click on the button "Look Up a Star" the application shows in the status the Star information.
<pre>lookUp: async function (){ }</pre>	

Add a Readme.md file

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Inside your project folder, create a readme.md file.	The readme.md file should include the following:
	1) Your ERC-721 Token Name 2) Your ERC-721 Token Symbol 3) Version of the Truffle and OpenZeppelin used 4) Your Token Address on the Rinkeby Network