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Logout

PROJECT SPECIFICATION

Create Your Own Private Blockchain

Complete unfinished block.js implementation

CRITERIA	MEETS SPECIFICATIONS
Modify the validate() function to validate if the block has been tampered or not.	-Return a new promise to allow the method be called asynchronous. -Create an auxiliary variable and store the current hash of the block in it (this represent the block object) -Recalculate the hash of the entire block (Use SHA256 from crypto-js library) -Compare if the auxiliary hash value is different from the calculated one. -Resolve true or false depending if it is valid or not.

CRITERIA	MEETS SPECIFICATIONS
Modify the 'getBData()' function to return the block body (decoding the data)	-Use hex2ascii module to decode the data -Because data is a javascript object use JSON.parse(string) to get the Javascript Object
	Resolve with the data and make sure that you don't need to return the data for the genesis block OR reject with an error.

Complete unfinished blockchain.js implementation

CRITERIA	MEETS SPECIFICATIONS
Modify the '_addBlock(block)' function to store a block in the chain	 Must return a Promise that will resolve with the block added OR reject if an error happen during the execution. height must be checked to assign the previousBlockHash -Assign the timestamp & the correct height -Create the block hash and push the block into the chain array. Don't for get to update the this.height

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	MEETS SPECIFICATIONS
Modify 'requestMessageOwnershipVerification(address)' to allow you to request a message that you will use to sign it with your Bitcoin Wallet (Electrum or Bitcoin Core)	must return a Promise that will resolve with the message to be signed
Modify 'submitStar(address, message, signature, star)' function to register a new Block with the star object into the chain	 must resolve with the Block added or reject with an error. time elapsed between when the message was sent and the current time must be less that 5 minutes must verify the message with wallet address and signature: bitcoinMessage.verify(message, address, signature) must create the block and add it to the chain if verification is valid
Modify the 'getBlockHeight(hash)' function to retrieve a Block based on the hash parameter	must return a Promise that will resolve with the Block

CRITERIA	MEETS SPECIFICATIONS
Modify the 'getStarsByWalletAddress (address)' function to return an array of Stars from an owners collection	must return a Promise that will resolve with an array of the owner address' Stars from the chain
Modify the 'validateChain()' function	 must return a Promise that will resolve with the list of errors when validating the chain must validate each block using validateBlock() Each Block should check with the previousBlockHash execute the validateChain() function every time a block is added create an endpoint that will trigger the execution of validateChain()

Test your App functionality

CRITERIA	MEETS SPECIFICATIONS

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CRITERIA	MEETS SPECIFICATIONS
Use 'POSTMAN' or similar service to test your blockchains endpoints and send screenshots of each call	 must use a GET call to request the Genesis block must use a POST call to requestValidation must sign message with your wallet must submit your Star must use GET call to retrieve starts owned by a particular address