CIS 600 Blockchain and Cryptocurrencies, Lab3
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Implemented blockchain application of logging remote storage file.
Design:
- I have defined the bkc_logging function where the data is encoded by converting it into hexa value.
- I have used function var str1 = web3.toHex({str});
- This encoded value is then transferred to Ethereum account by performing send transaction function. Send transaction function is defined as below:
- web3.eth.sendTransaction({from: defaultAcc, data:str1, to:defaultAcc},function(error, success)
- This bkc_logging function is called by user_login, user_logout, file_permission_set, file_delegate and file_Access functions.
- These functions transactions are then logged by send transaction function.

Implementation issues:
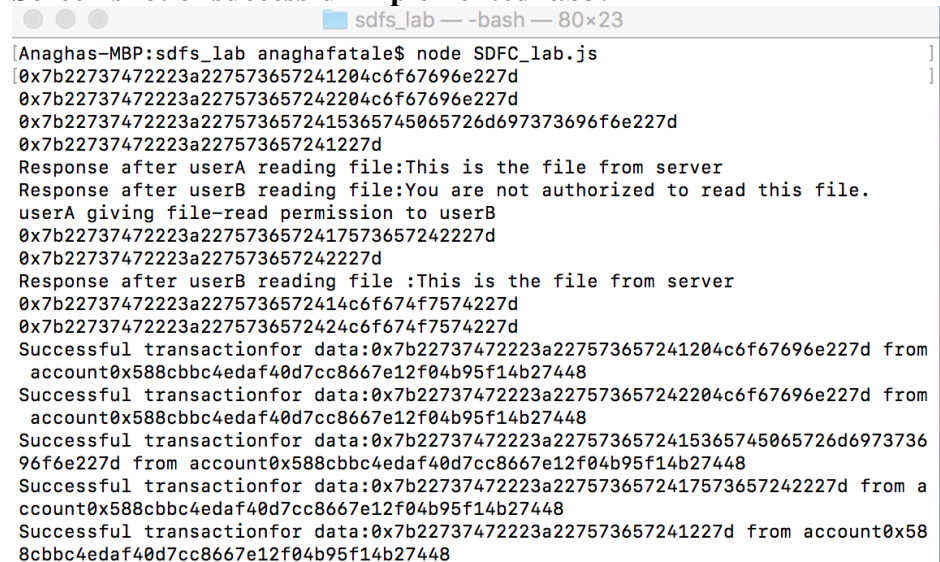Running the node js file, after every transaction, Ethereum account gets locked.
Overcame this issue by executing below unlock account command on another geth terminal.
personal.unlockAccount(eth.accounts[0])
Unlock account 0x588cbbc4edaf40d7cc8667e12f04b95f14b27448
Passphrase:

Screen shot of successful implemented lab3: