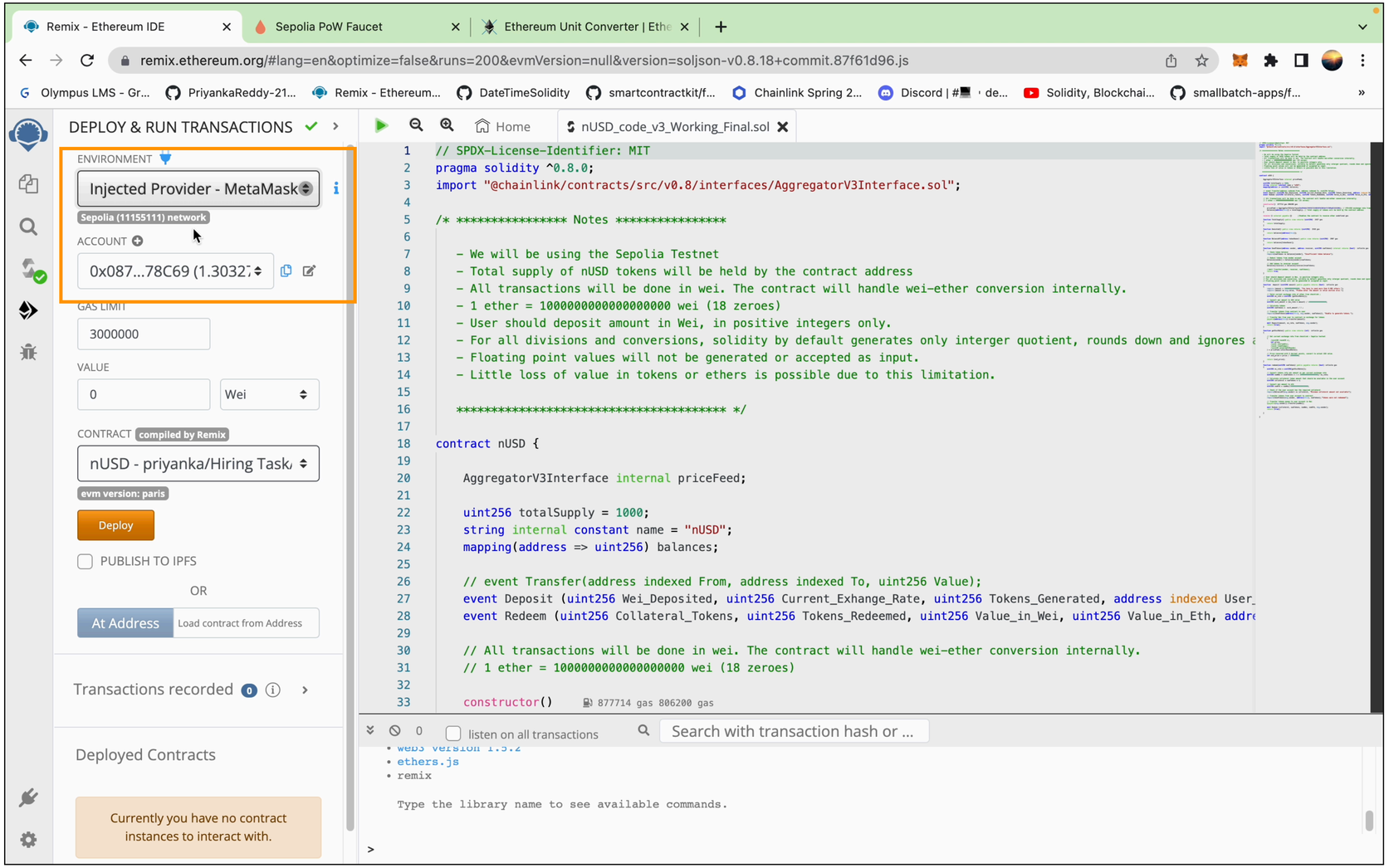
Implementation of Stable coin - nUSD

Test Cases and Results

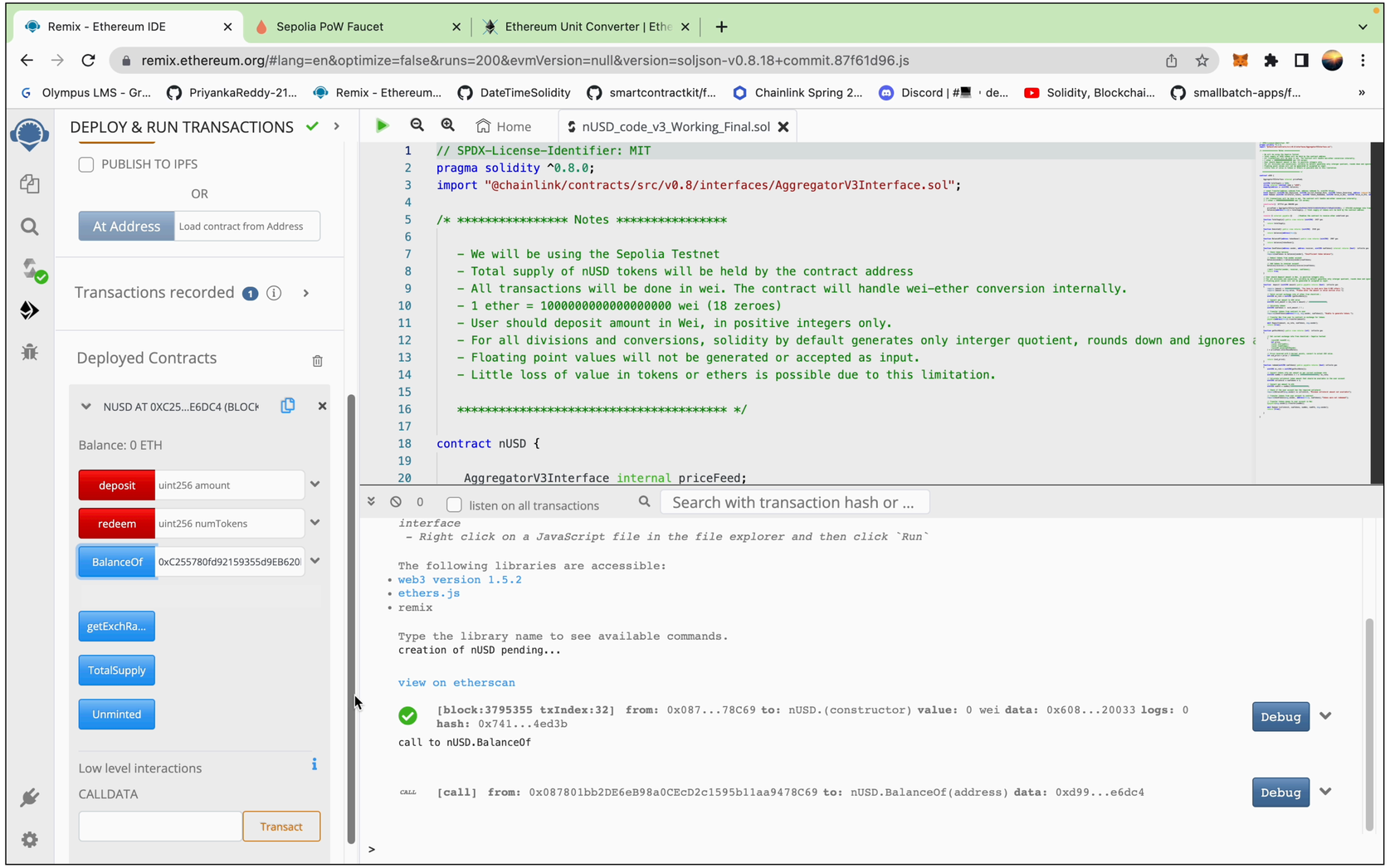
Connection to Tesnet

- Connect to Sepolia testnet via Metamask.
- Ensure minimum balance of 1 Ether in account.



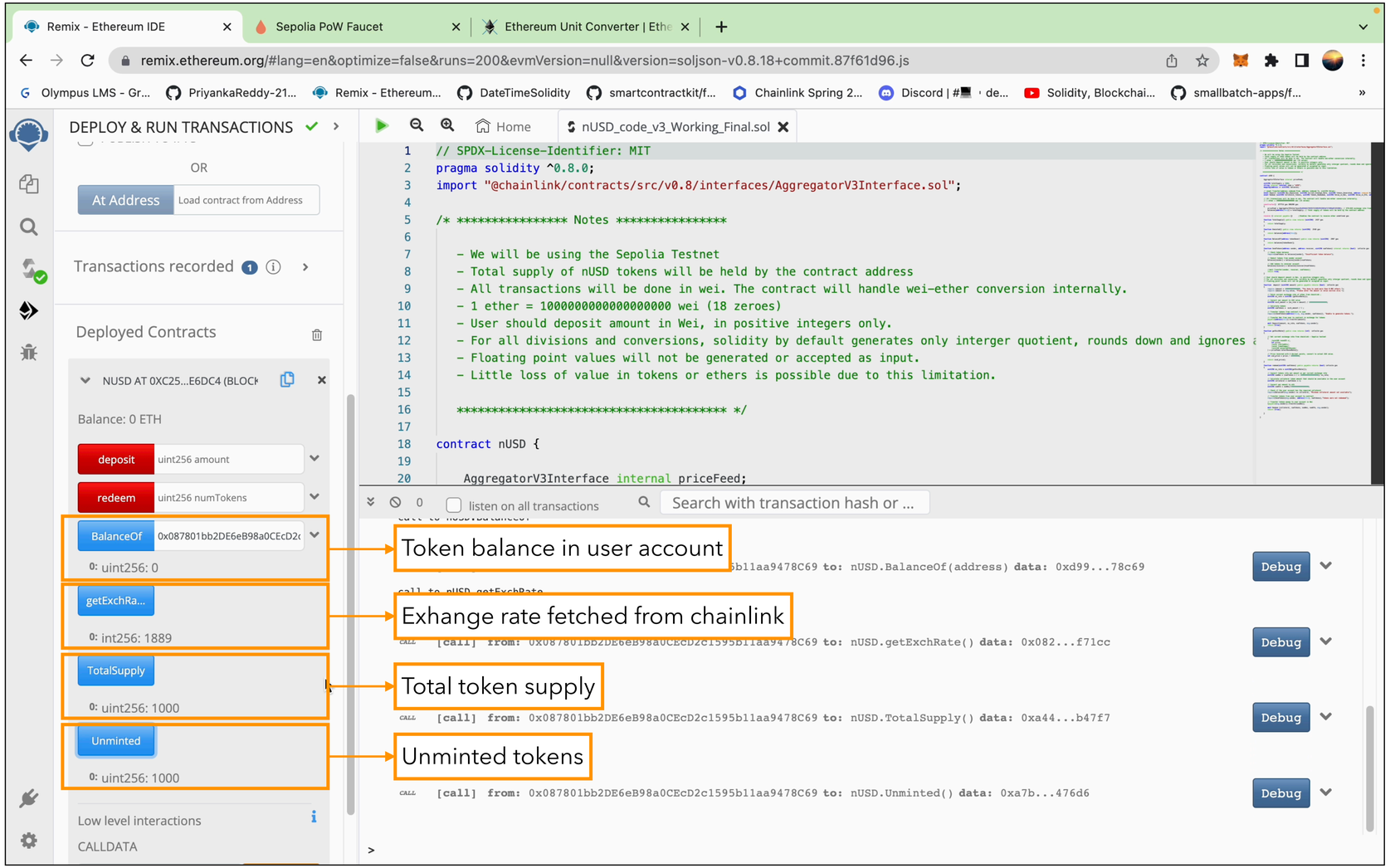
Deploy contract

- Compile and deploy the contract
- Approve on Metamask when it prompts for approval.



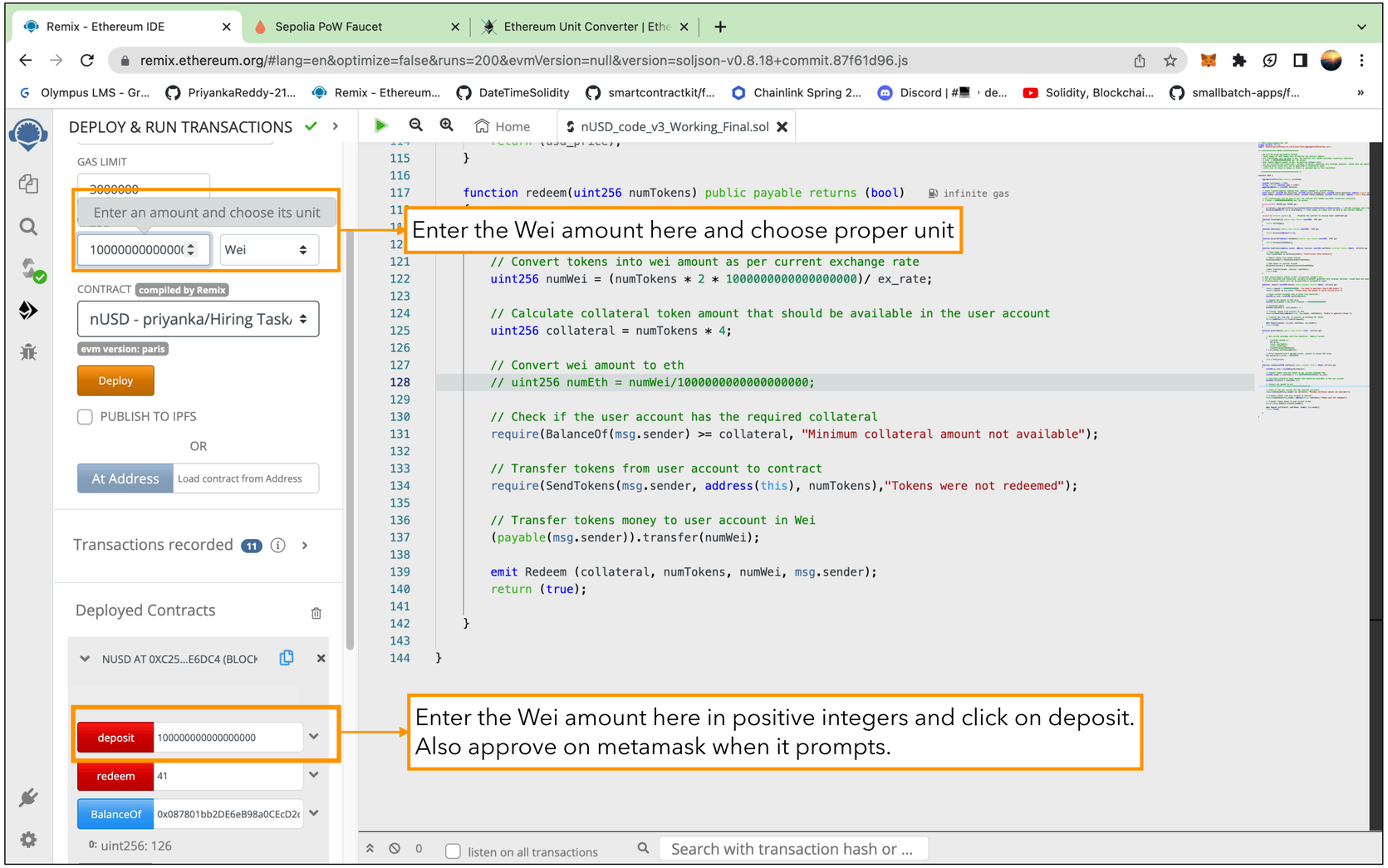
Initial State

Initial state after contract deployment will be like this :



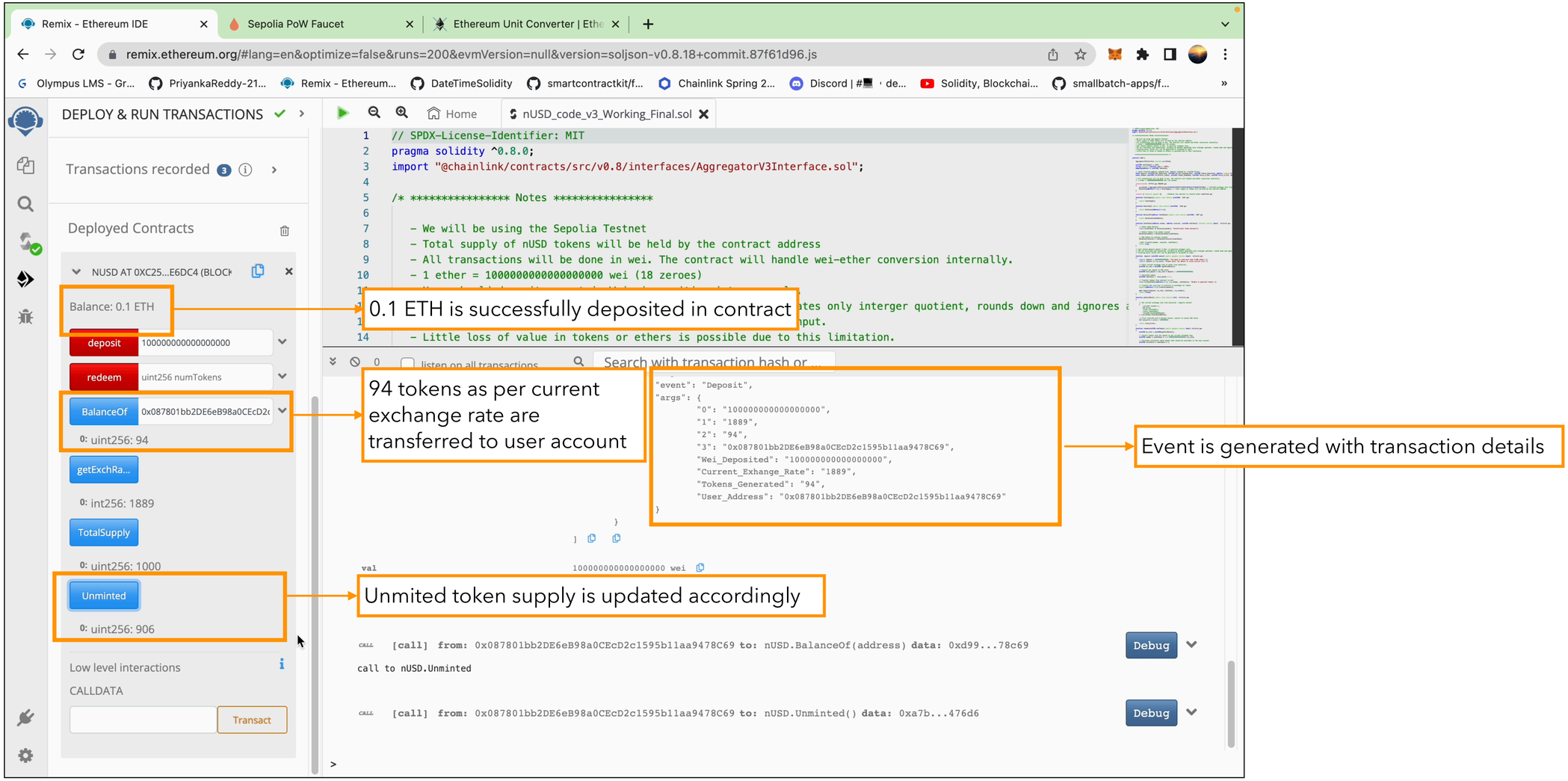
Deposit

We can deposit ethers to get tokens in return. Ensure to convert ethers into Wei and then make deposits.



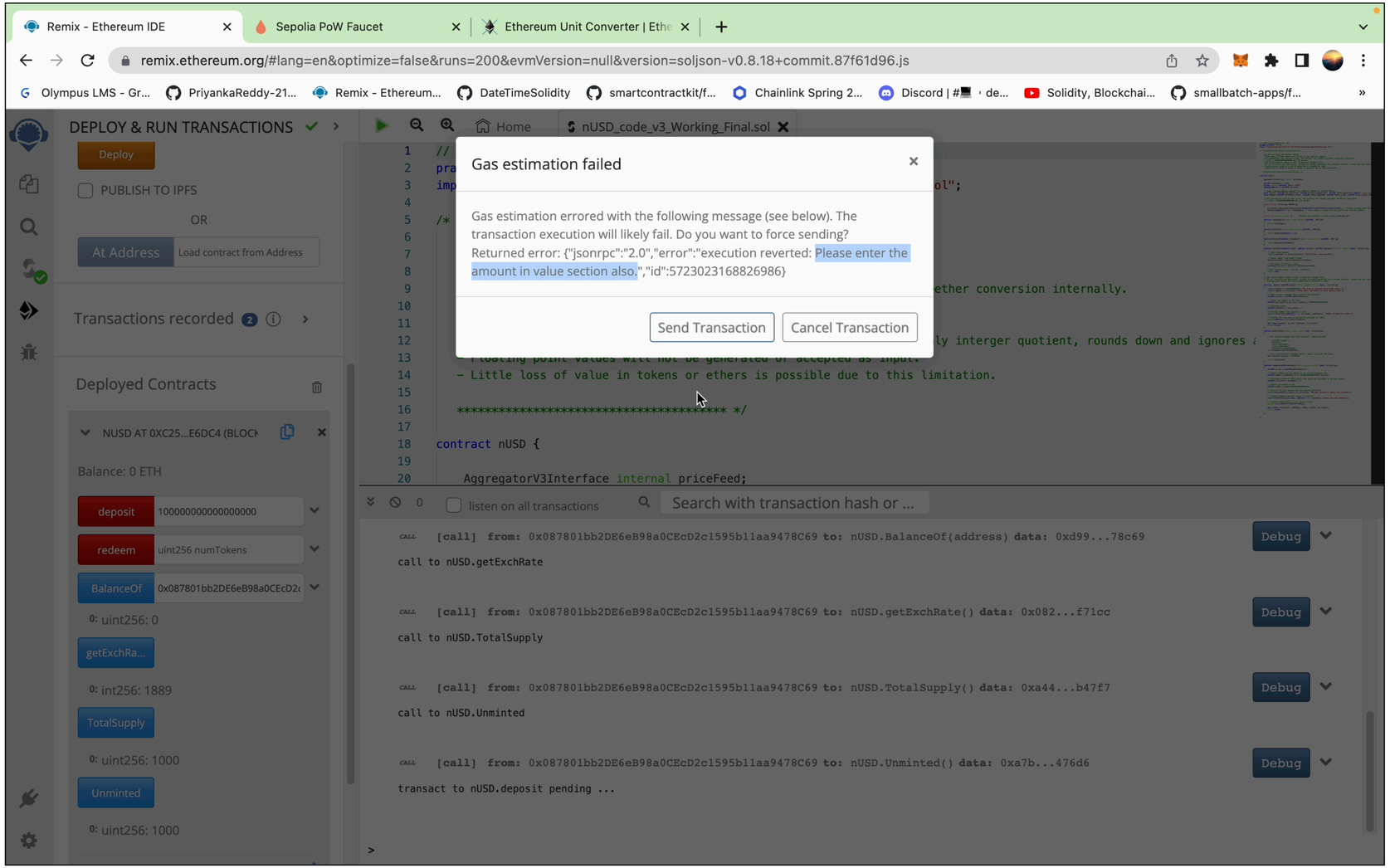
Deposit

Deposit operation is successful.



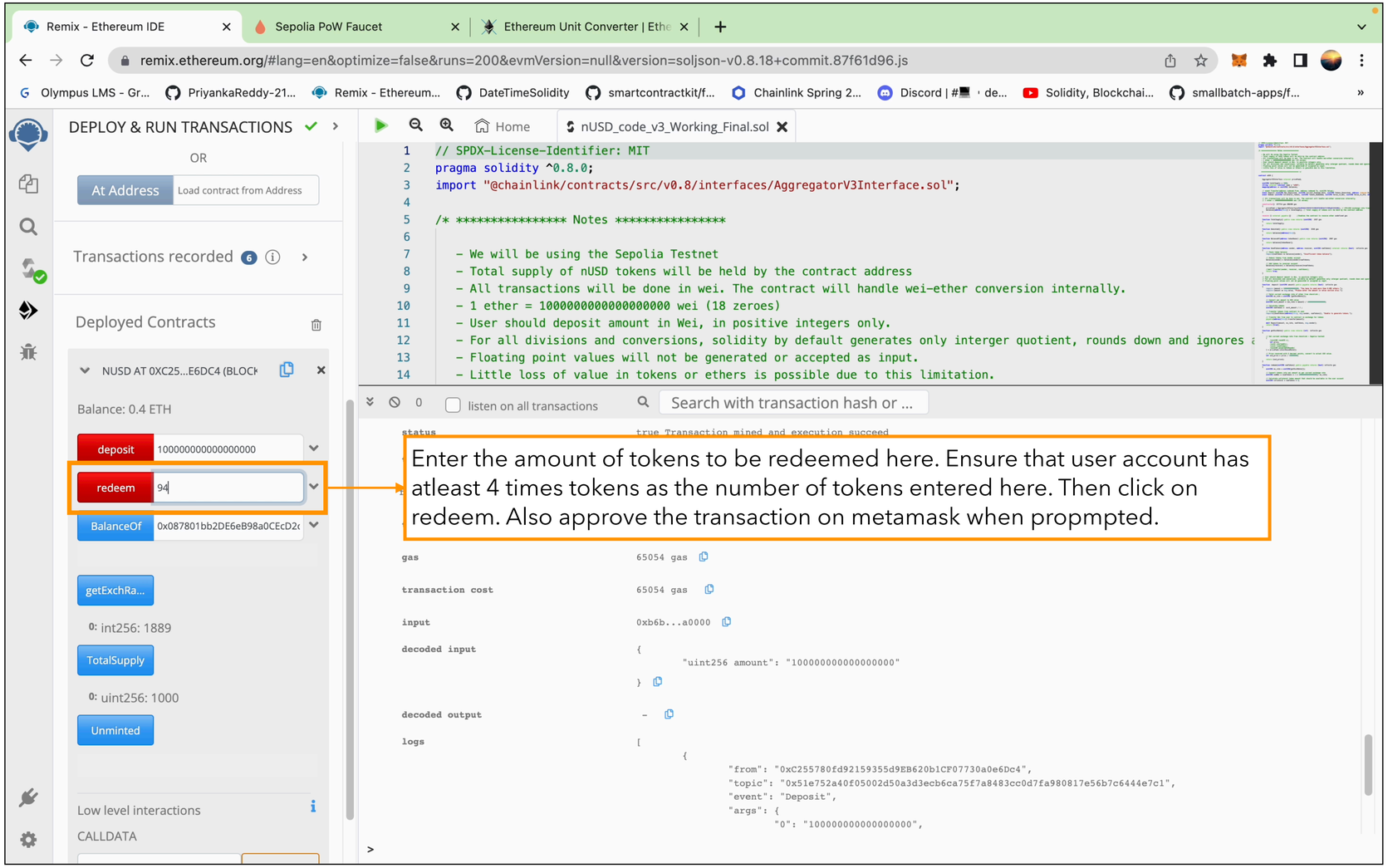
Deposit

Error when Wei amount is not entered in “value” section.
Solution - Enter the Wei amount in “value” section as well as the “deposit” section before clicking on deposit button.



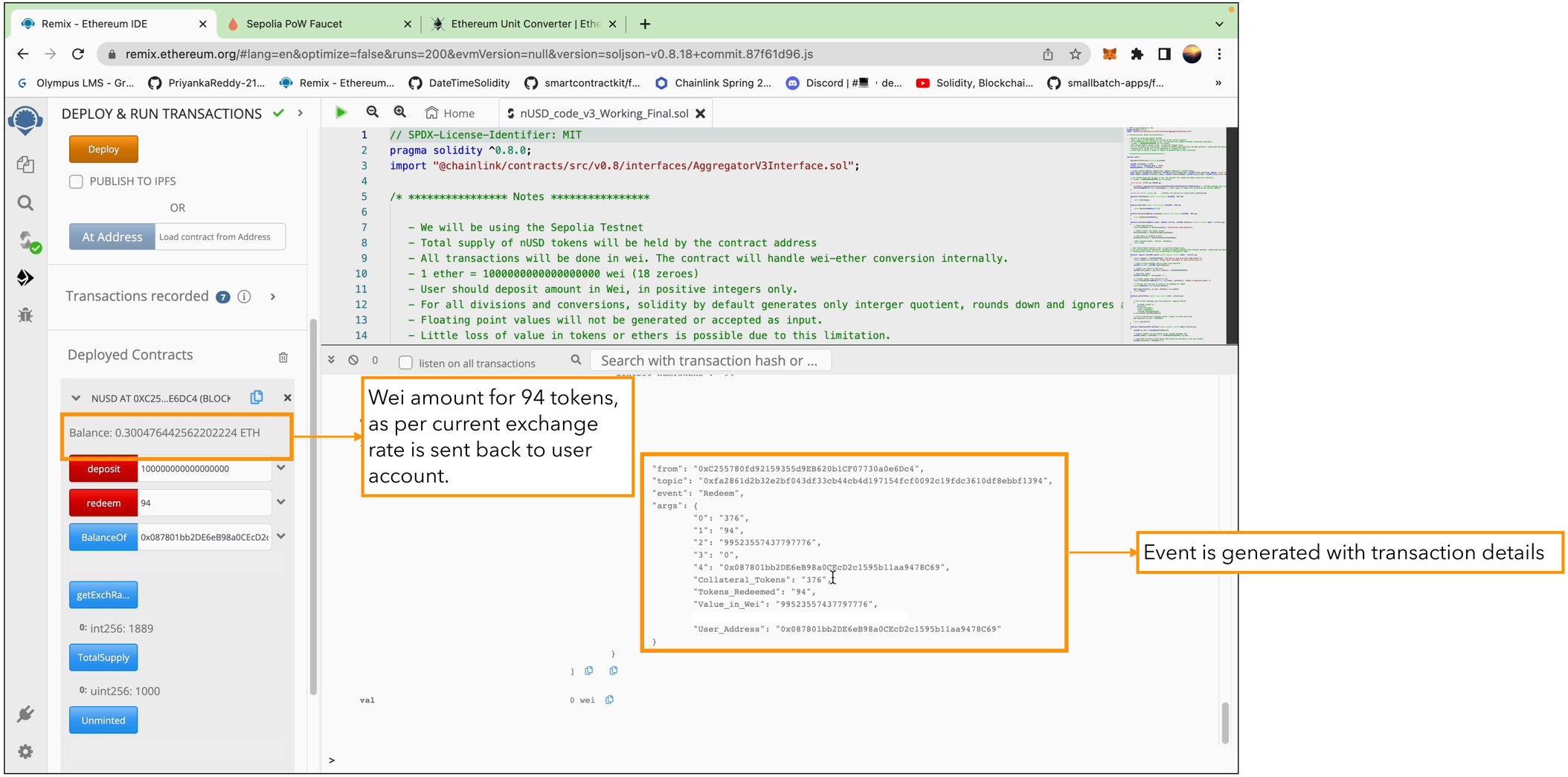
Redeem

Before redeeming tokens, we need to ensure a minimum balance of (No. of ETH to be redeemed* ETH value in USD * 2) amount of tokens in the user account. To achieve this, deposit more Wei and accordingly the tokens will be sent to user account for collateral. Now, we can proceed with redeem operation.



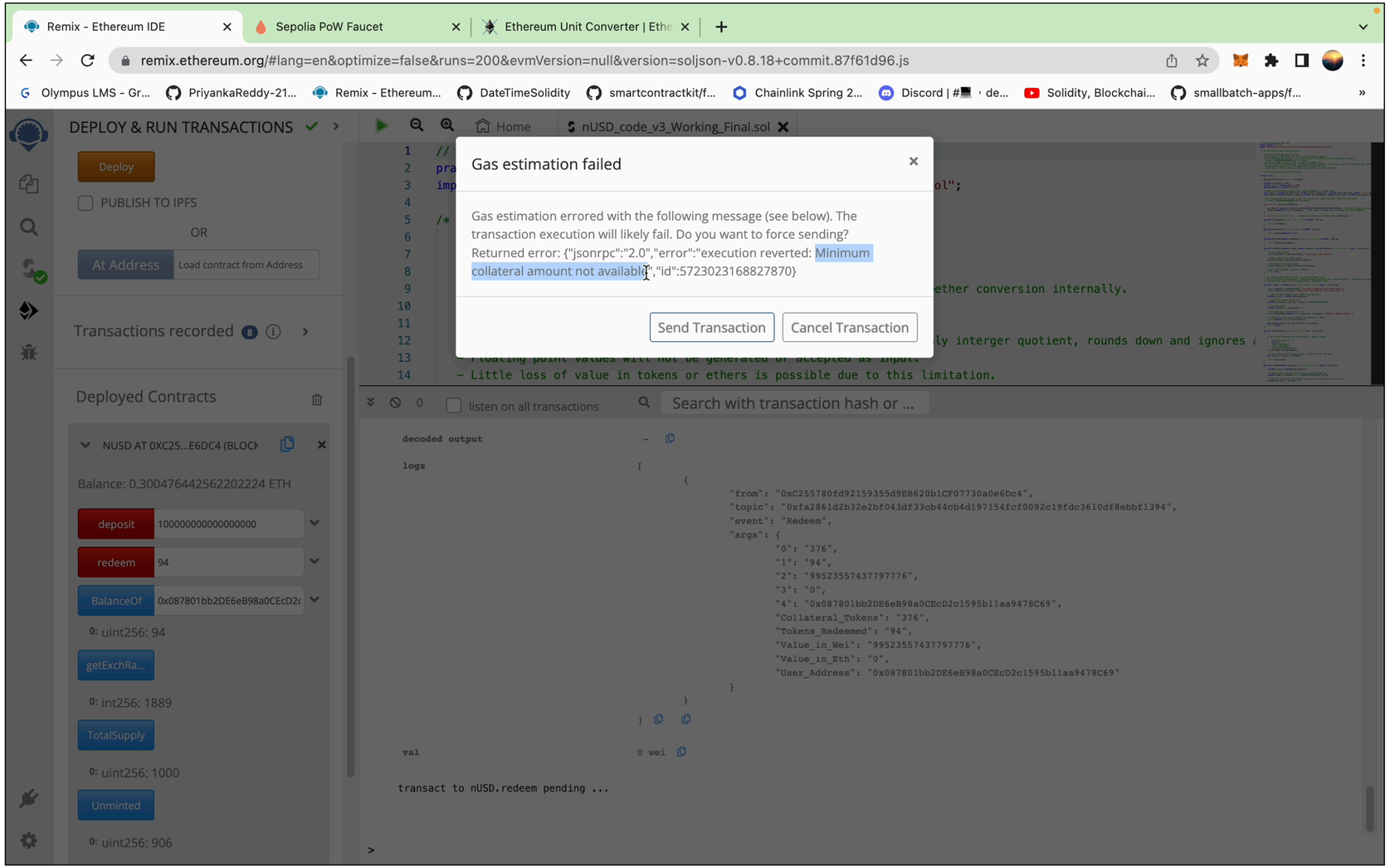
Redeem

Redeem operation was successful.



Redeem

Error when minimum collateral token amount is not available in user account.
Solution - Either add more tokens to user account, or reduce the number of tokens to be redeemed.



Thank You !