Token Contract

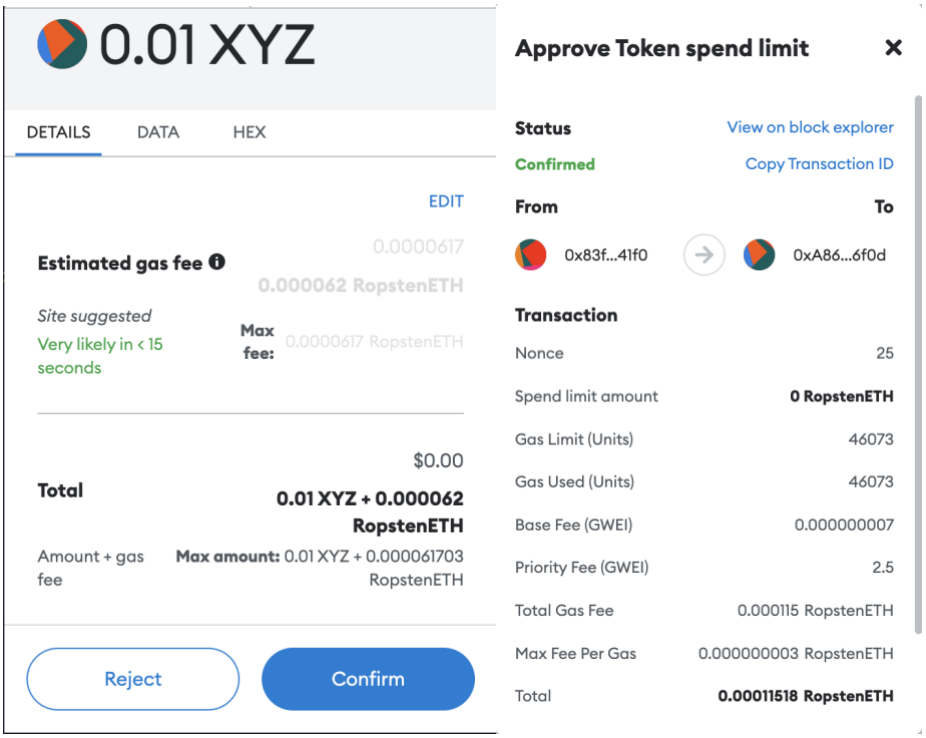
```
//SPDX-License-Identifier: MIT
pragma solidity ^0.4.24;

// Token Contract

contract Token {

    function totalSupply() public constant returns (uint256 supply) {}

    function balanceOf(address _owner) constant returns (uint256 balance) {}

    function transfer(address _to, uint256 _value) returns (bool success) {}

    function transferFrom (address _from, address _to, uint256 _value) returns (bool success) {}

    function approve(address _spender, uint256 _value) returns (bool success) {}

    function allowance (address _owner, address _spender) constant returns (uint256 remaining) {}

    // indexed keyword for searching logged events

    event Transfer (address indexed _from, address indexed _to, uint256 _value);

    event Approval (address indexed _owner, address indexed _spender, uint256 _value);

}

contract CT7Token is Token {
    // defining Data Types
    string public name;
    uint8 public decimals;
    string public symbol;
    uint256 public unitsOneEthCanBuy;
    uint256 public totalEthInWei;
    address public fundsWallet;
```

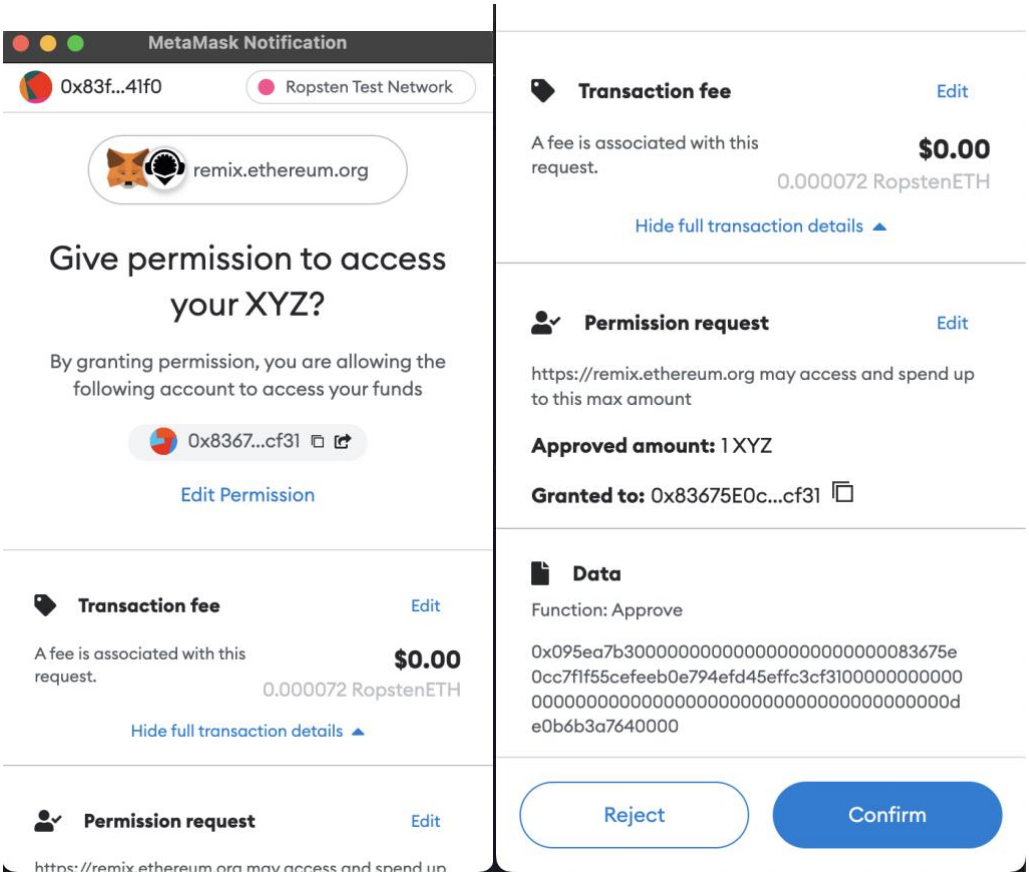
```
    mapping (address => uint256) balances;
    mapping (address => mapping (address => uint256)) allowed; // amount of unit allowed by address1 to be used by
address 2
    uint256 public totalSupply;

// Constructor
// 1 ETH = 10^18 Weis
// 1 CT7 = 10^18
// Balances can be equal or less than totalSupply

    constructor() public {
        balances[msg.sender] = 1000000000000000000;
        totalSupply = 1000000000000000000;
        name = "CT7Token";
        decimals = 18;
        symbol = "CT7";
        unitsOneEthCanBuy = 10;
        fundsWallet = msg.sender;
    }

// Main Function with Safe Math

    function transfer(address _to, uint256 _value) returns (bool success) {

        if (balances[msg.sender] >= _value && balances[_to] + _value > balances [_to]) {
            balances[msg.sender] -= _value;
            balances[_to] += _value;
            emit Transfer(msg.sender, _to, _value);
            return true;
        }
        else {
            return false;
        }
    }

    function transferFrom(address _from, address _to, uint256 _value) public returns (bool success){
```

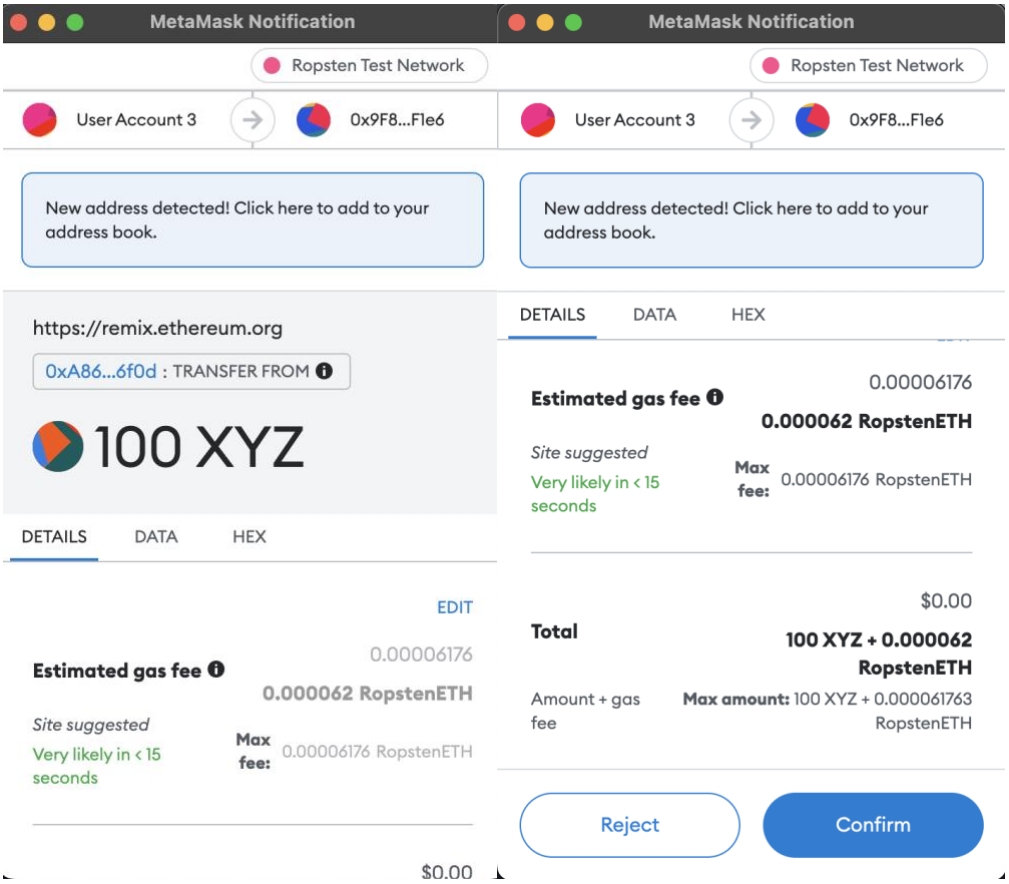
```
        if (balances[_from] >= _value && allowed[_from][msg.sender]>= _value && balances[_to]+ _value > balances
[_to]) {
            balances[_to] += _value;
            balances[_from] -= _value;
            allowed[_from][msg.sender] -= _value;
            emit Transfer (_from, _to, _value);
            return true;
        }
        else {
            return false;
        }
    }
    // constant is similar to view in the older version of Solidity
    function balanceOf (address _owner) constant returns (uint256 balance) {
        return balances[_owner];
    }

    function approve (address _spender, uint256 _value) returns (bool success) {
        allowed[msg.sender][_spender] = _value;
        emit Approval(msg.sender, _spender, _value);
        return true;
    }

//fallback function

     function() payable{
        totalEthInWei = totalEthInWei + msg.value;

        uint256 amount = msg.value * unitsOneEthCanBuy;

        require(balances[fundsWallet] >= amount);

        balances[fundsWallet] = balances[fundsWallet] - amount;

        balances[msg.sender] = balances[msg.sender] + amount;

        emit Transfer (fundsWallet, msg.sender, amount);
```

```
        fundsWallet.transfer(msg.value);

    }

}
```

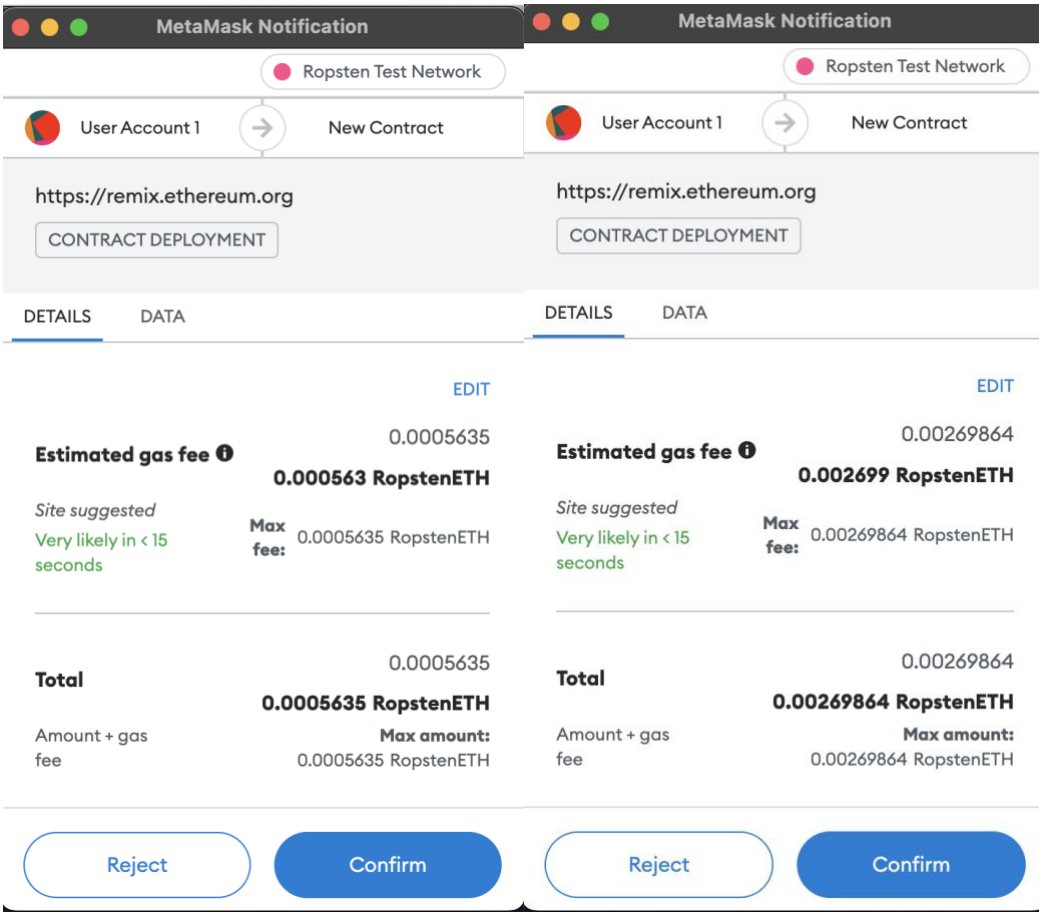
Transaction:

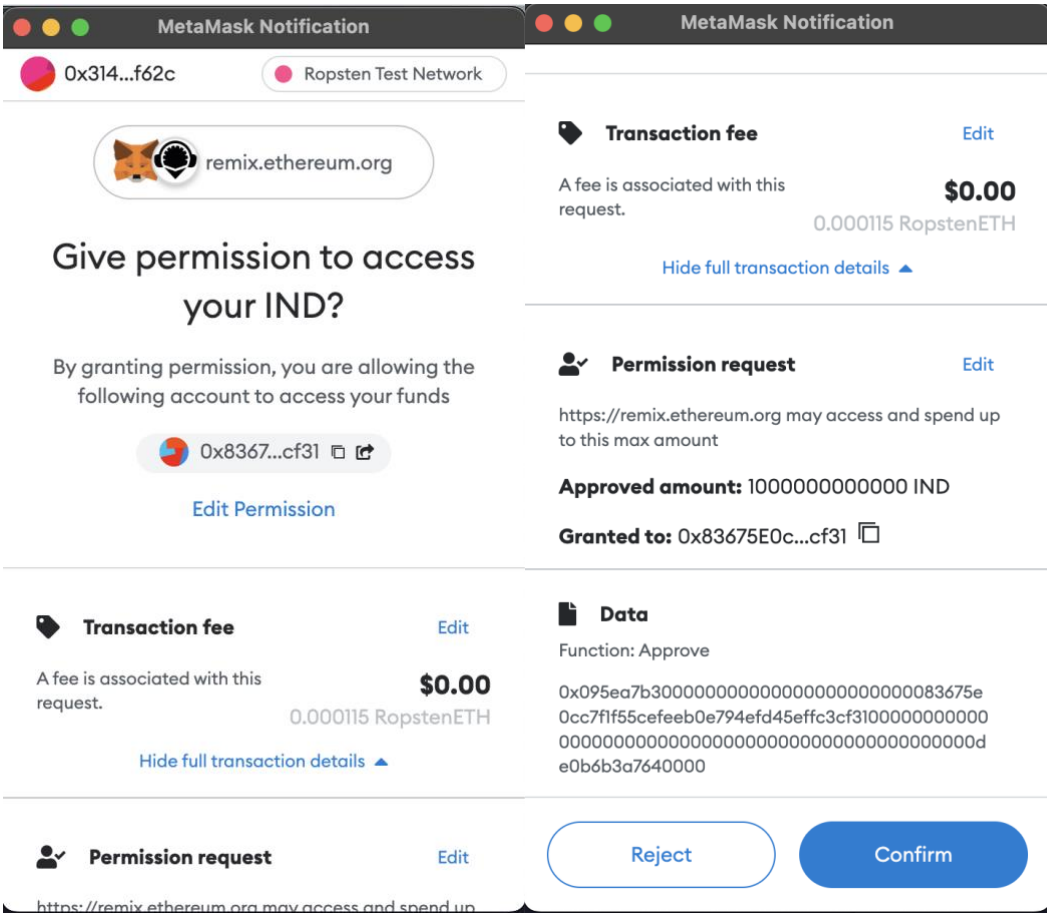



MetaMask Notification
0x83f...41f0
Ropsten Test Network
remix.ethereum.org
Give permission to access your XYZ?
By granting permission, you are allowing the following account to access your funds
0x8367...cf31
Edit Permission
Transaction fee
Edit
A fee is associated with this request.
$0.00
0.000072 RopstenETH
Hide full transaction details
Permission request
Edit
https://remix.ethereum.org may access and spend up
Transaction fee
Edit
A fee is associated with this request.
$0.00
0.000072 RopstenETH
Hide full transaction details
Permission request
Edit
https: //remix.ethereum.org may access and spend up to this max amount
Approved amount: 1 XYZ
Granted to: 0x83675E0c...cf31
Data
Function: Approve
0x095ea7b300000000000000000000000083675e0cc7f1f55cefeeb0e794efd45effc3cf3100000000000000000000000000000000000000000000000000000000000000de0b6b3a7640000
Reject
Confirm

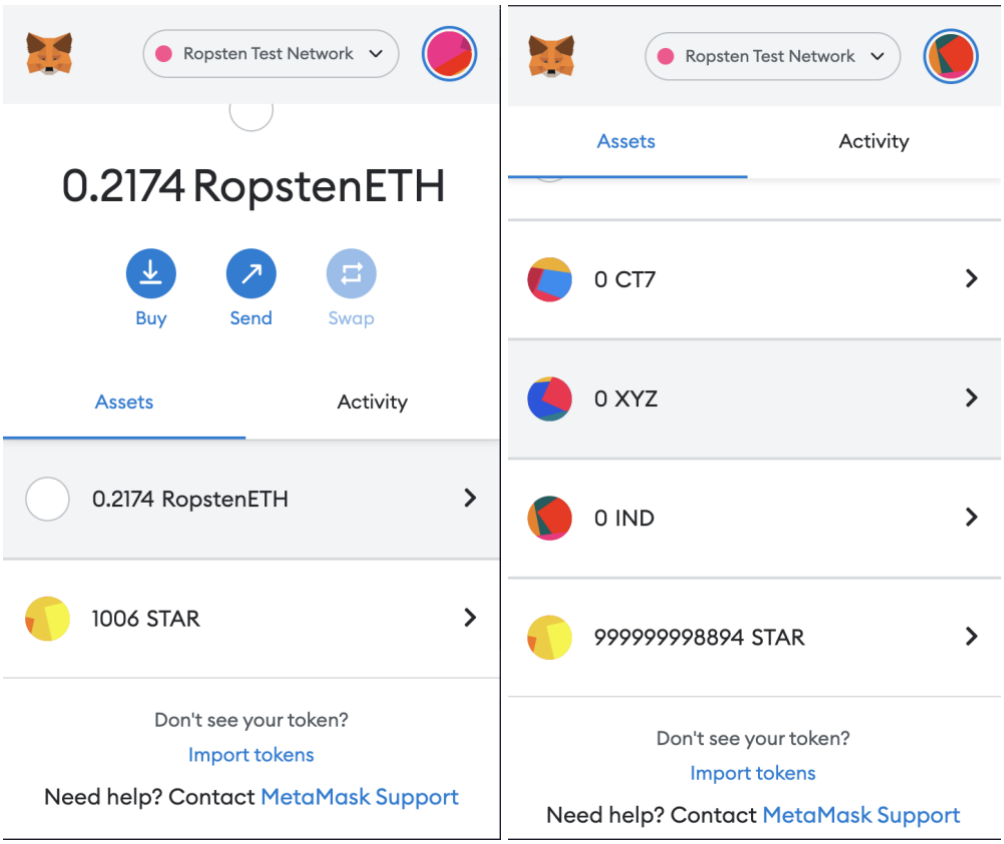

MetaMask Notification
Ropsten Test Network
User Account 3
0x9F8...F1e6
New address detected! Click here to add to your address book.
https://remix.ethereum.org
0xA86...6f0d : TRANSFER FROM
100 XYZ
DETAILS
DATA
HEX
EDIT
Estimated gas fee
0.00006176
0.000062 RopstenETH
Site suggested
Very likely in < 15 seconds
Max fee:
0.00006176 RopstenETH
$0.00
MetaMask Notification
Ropsten Test Network
User Account 3
0x9F8...F1e6
New address detected! Click here to add to your address book.
DETAILS
DATA
HEX
Estimated gas fee
0.00006176
0.000062 RopstenETH
Site suggested
Very likely in < 15 seconds
Max fee:
0.00006176 RopstenETH
Total
$0.00
100 XYZ + 0.000062 RopstenETH
Amount + gas fee
Max amount: 100 XYZ + 0.000061763 RopstenETH
Reject
Confirm

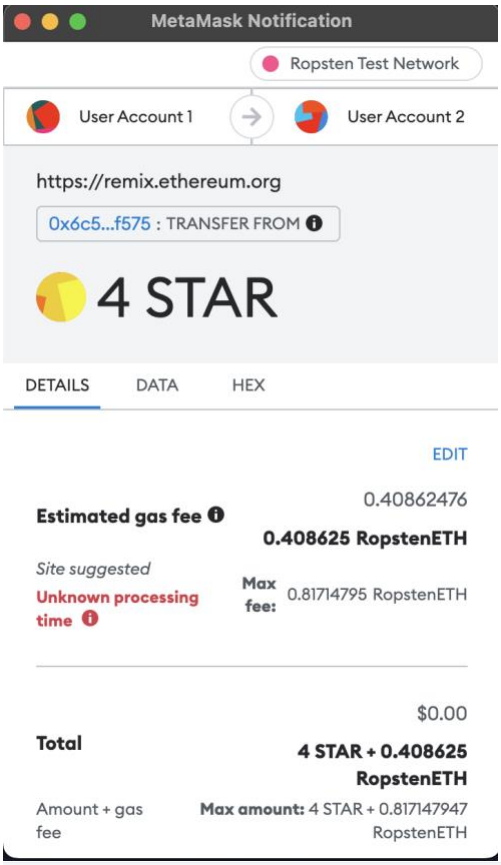
```
Contract: 0x83fF719287C49cFC50BD02a01c3EDa4bb7da41f0
User 1:   0x83fF719287C49cFC50BD02a01c3EDa4bb7da41f0
User 2:   0x83675E0cC7f1f55cEFeEb0E794eFD45EfFc3cf31
User 3:   0x314aF8A911e39CA773F0ff9A94a2B4FcfE83f62C
```

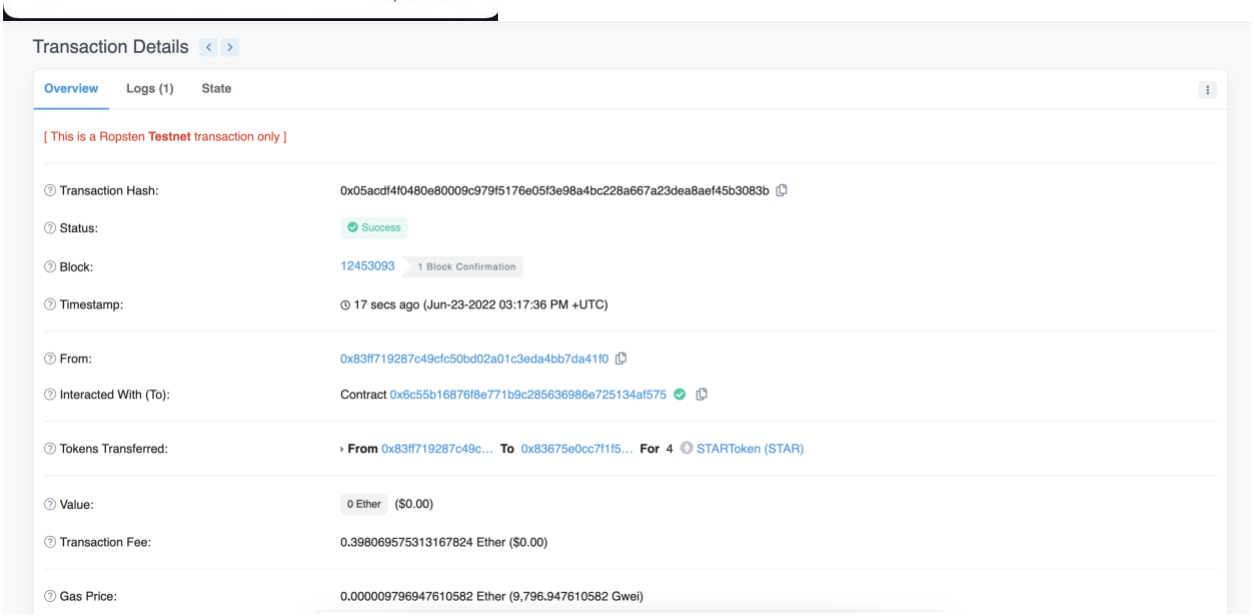


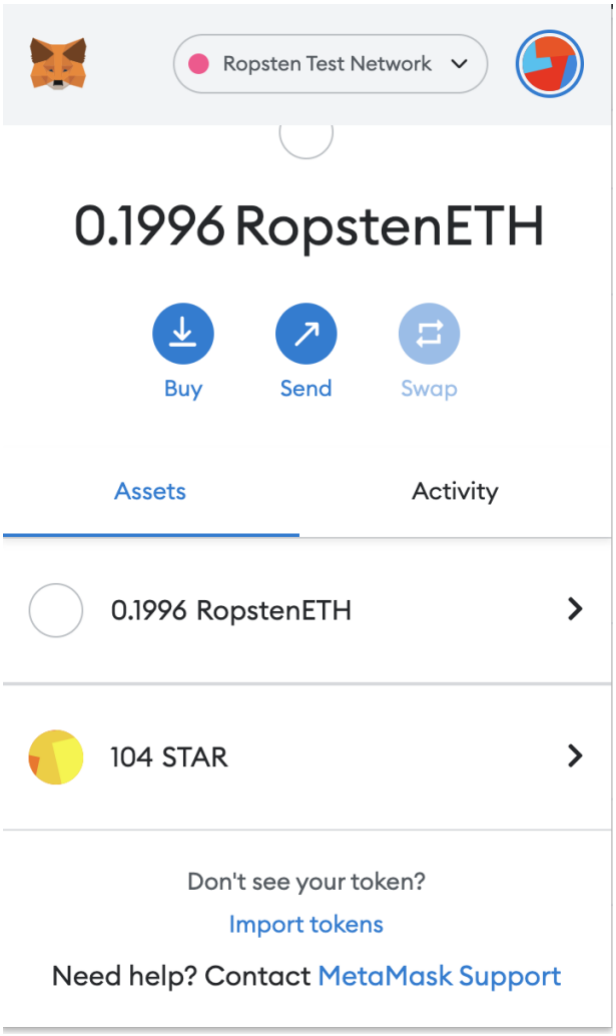

MetaMask Notification
0x314...f62c
Ropsten Test Network
remix.ethereum.org
Give permission to access your IND?
By granting permission, you are allowing the following account to access your funds
0x8367...cf31
Edit Permission
Transaction fee
Edit
A fee is associated with this request.
$0.00
0.000115 RopstenETH
Hide full transaction details
Permission request
Edit
https://remix.ethereum.org may access and spend up
MetaMask Notification
Transaction fee
Edit
A fee is associated with this request.
$0.00
0.000115 RopstenETH
Hide full transaction details
Permission request
Edit
https://remix.ethereum.org may access and spend up to this max amount
Approved amount: 1000000000000 IND
Granted to: 0x83675E0c...cf31
Data
Function: Approve
0x095ea7b30000000000000000000000083675e
0cc7f1f55cefeeb0e794efd45effc3cf3100000000000
0000000000000000000000000000000000000000d
e0b6b3a7640000
Reject
Confirm

Additional Testing with STAR Tokens:




MetaMask Notification
Ropsten Test Network
User Account 1
User Account 2
https://remix.ethereum.org
0x6c5...f575 : TRANSFER FROM
4 STAR
DETAILS
DATA
HEX
EDIT
Estimated gas fee
0.40862476
0.408625 RopstenETH
Site suggested
Unknown processing time
Max fee:
0.81714795 RopstenETH
Total
$0.00
4 STAR + 0.408625 RopstenETH
Amount + gas fee
Max amount: 4 STAR + 0.817147947 RopstenETH


Transaction Details
Overview
Logs (1)
State
[This is a Ropsten Testnet transaction only]
Transaction Hash:
0x05acdf4f0480e80009c979f5176e05f3e98a4bc228a667a23dea8aef45b3083b
Status:
Success
Block:
12453093
1 Block Confirmation
Timestamp:
17 secs ago (Jun-23-2022 03:17:36 PM +UTC)
From:
0x83ff719287c49cfc50bd02a01c3eda4bb7da41f0
Interacted With (To):
Contract 0x6c55b16876f8e771b9c285636986e725134af575
Tokens Transferred:
From 0x83ff719287c49c... To 0x83675e0cc7f1f5... For 4 STARToken (STAR)
Value:
0 Ether ($0.00)
Transaction Fee:
0.398069575313167824 Ether ($0.00)
Gas Price:
0.000009796947610582 Ether (9,796.947610582 Gwei)


Ropsten Test Network
0.1996 RopstenETH
Buy
Send
Swap
Assets
Activity
0.1996 RopstenETH
104 STAR
Don't see your token?
Import tokens
Need help? Contact MetaMask Support