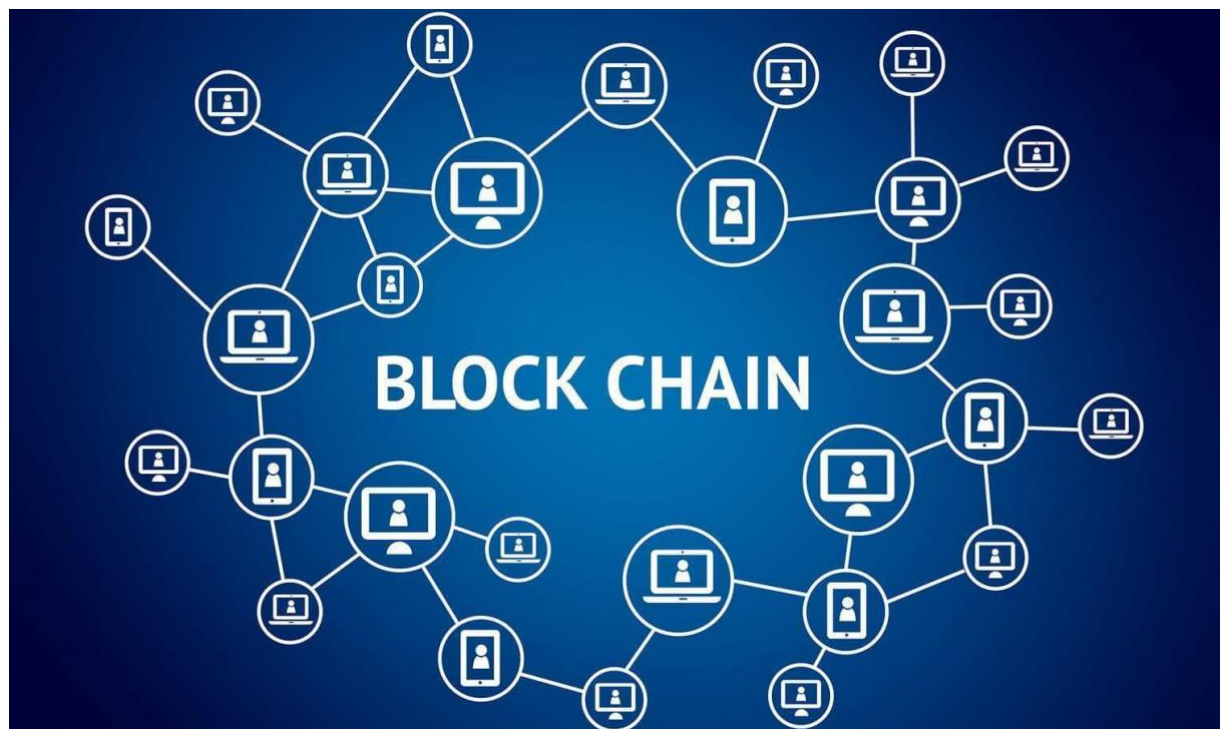
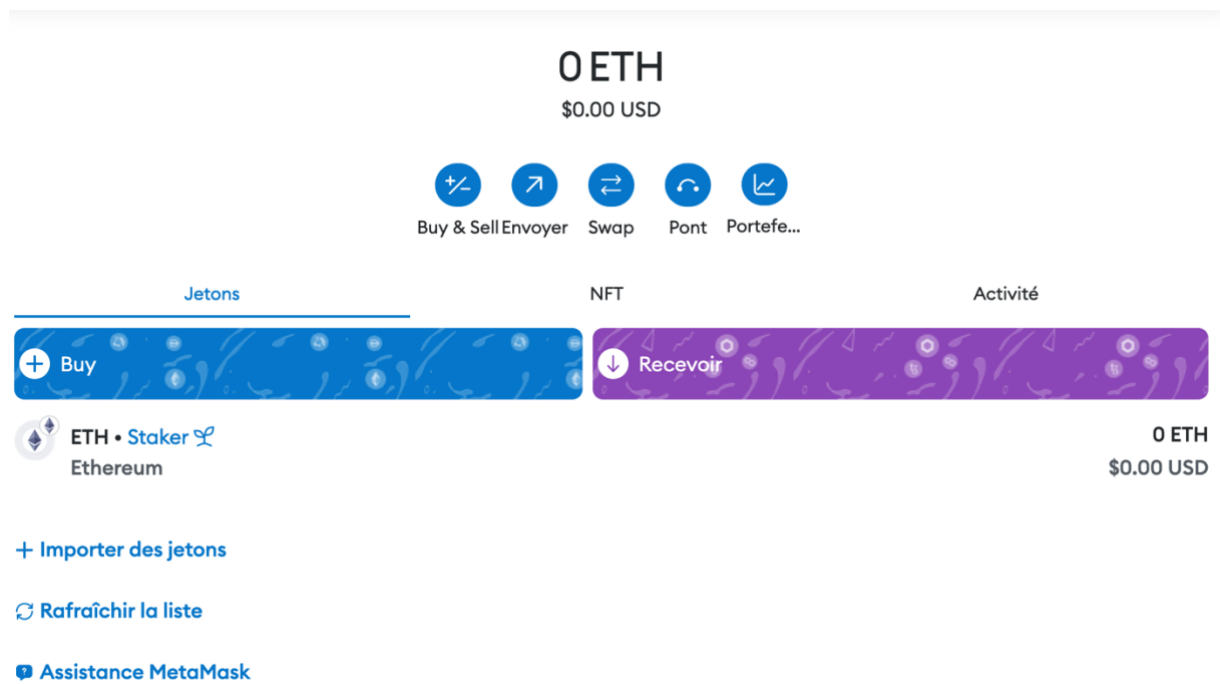


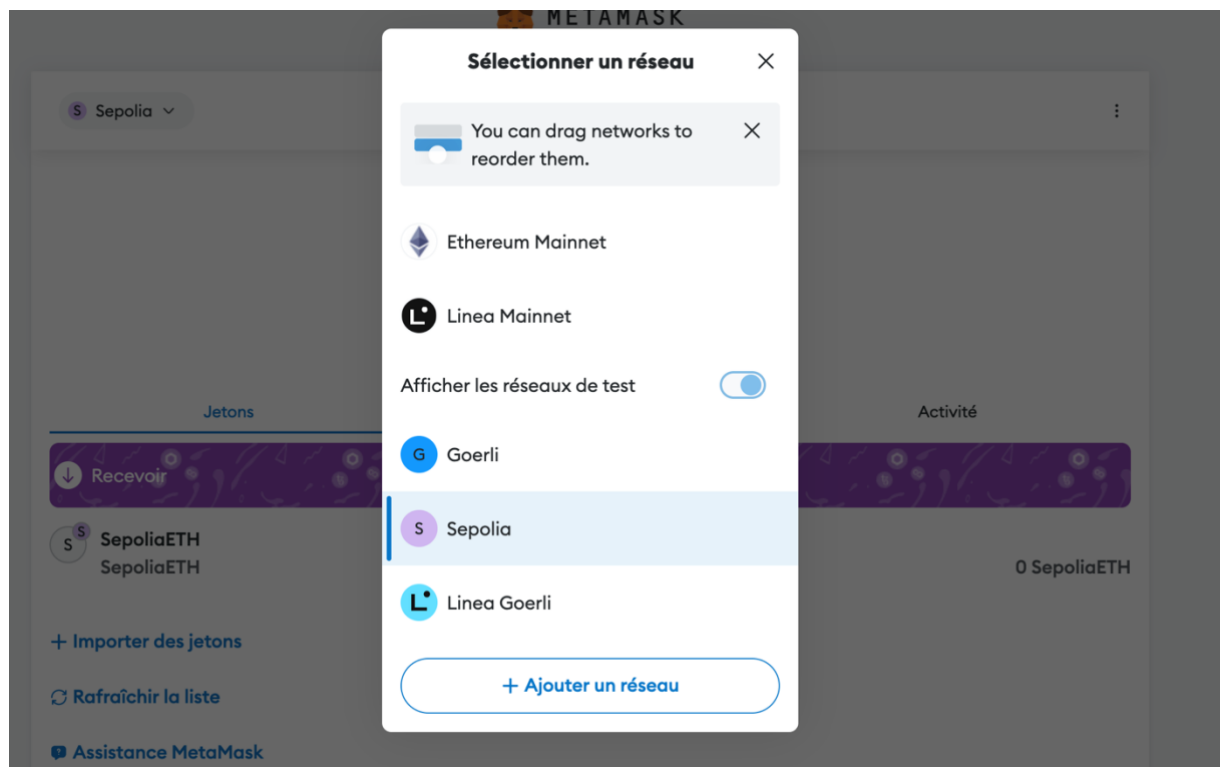
TP Blockchain



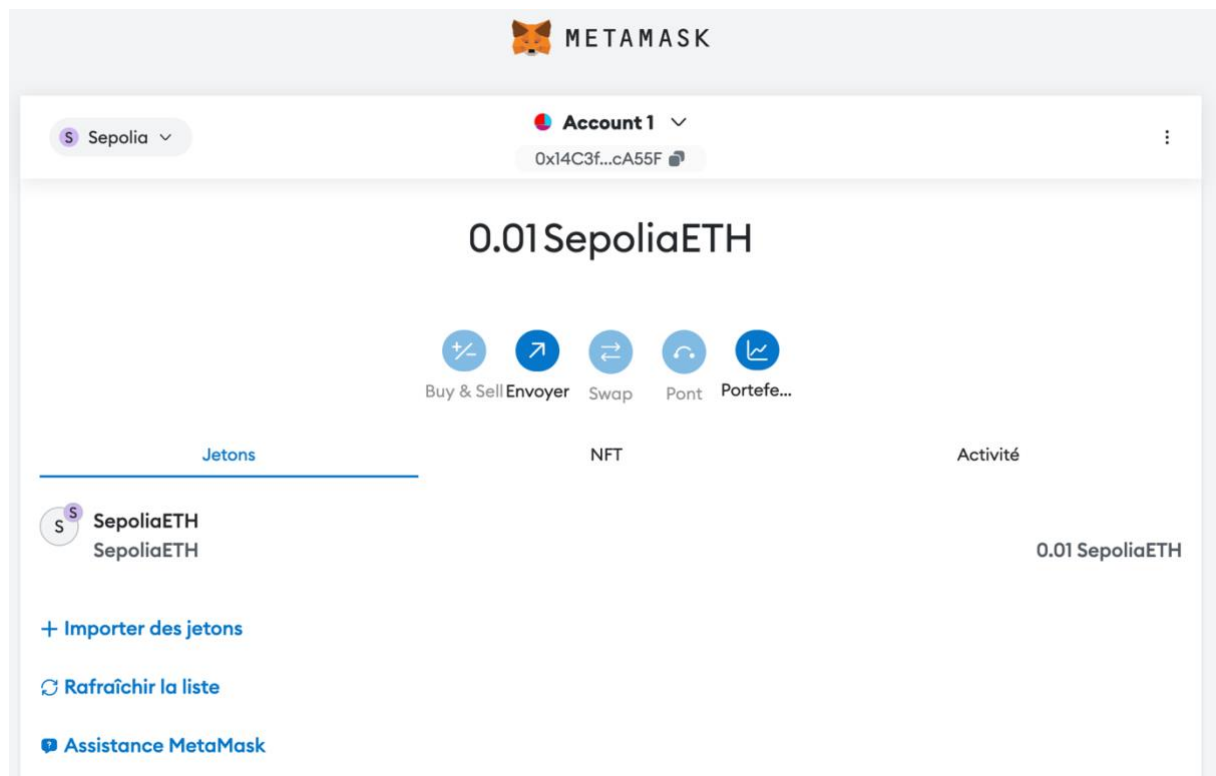
c.



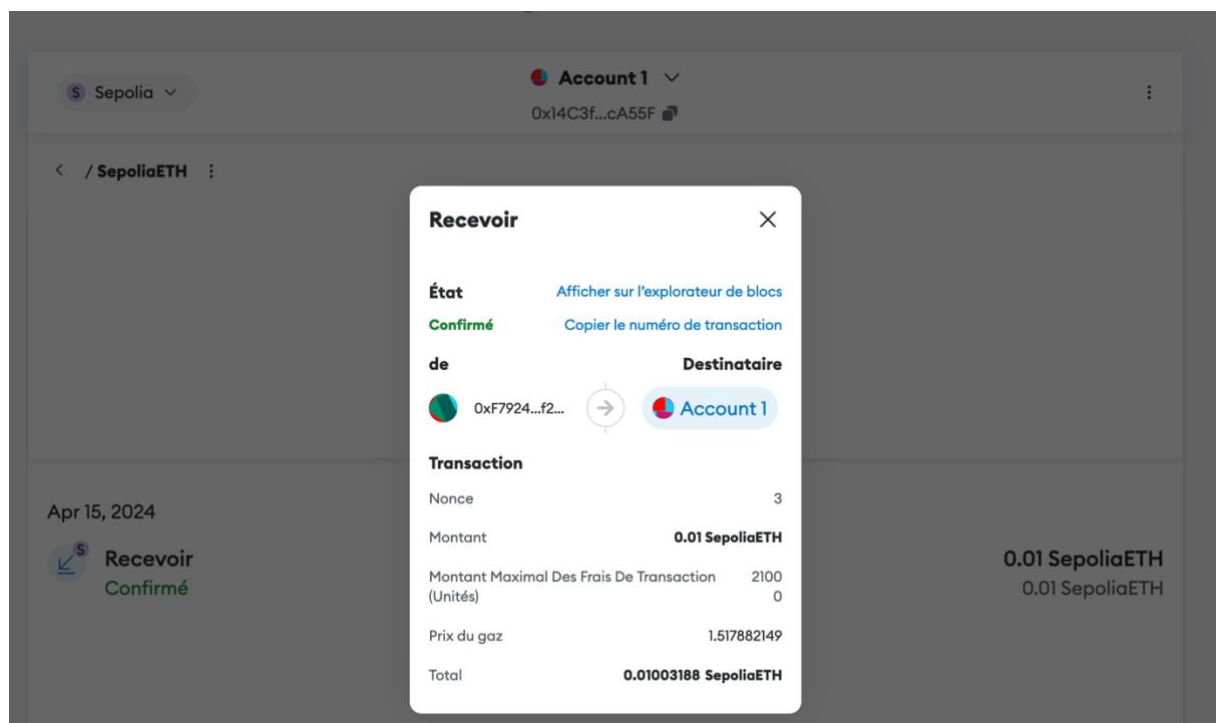
d.



e. identifiant de clé publique : 0x14C3f8d4651dd865efdf9161E44864CE545cA55F






g.



Transaction Details < >

Overview State

[This is a Sepolia Testnet transaction only]






Transaction Hash:	0xa6322d41432ddbcae124105aead59280bc7a30ded5ec474c9e776e66d0d73ded 
Status:	Success
Block:	5701918 26 Block Confirmations
Timestamp:	5 mins ago (Apr-15-2024 07:16:00 AM +UTC)
From:	0xF79244be8F46E4687A7150a76bFD821e775f26bB 
To:	0x14C3f8d4651dd865efdf9161E44864CE545cA55F 
Value:	0.01 ETH (\$0.00)
Transaction Fee:	0.000031875525129 ETH (\$0.00)
Gas Price:	1.517882149 Gwei (0.000000001517882149 ETH)

h.

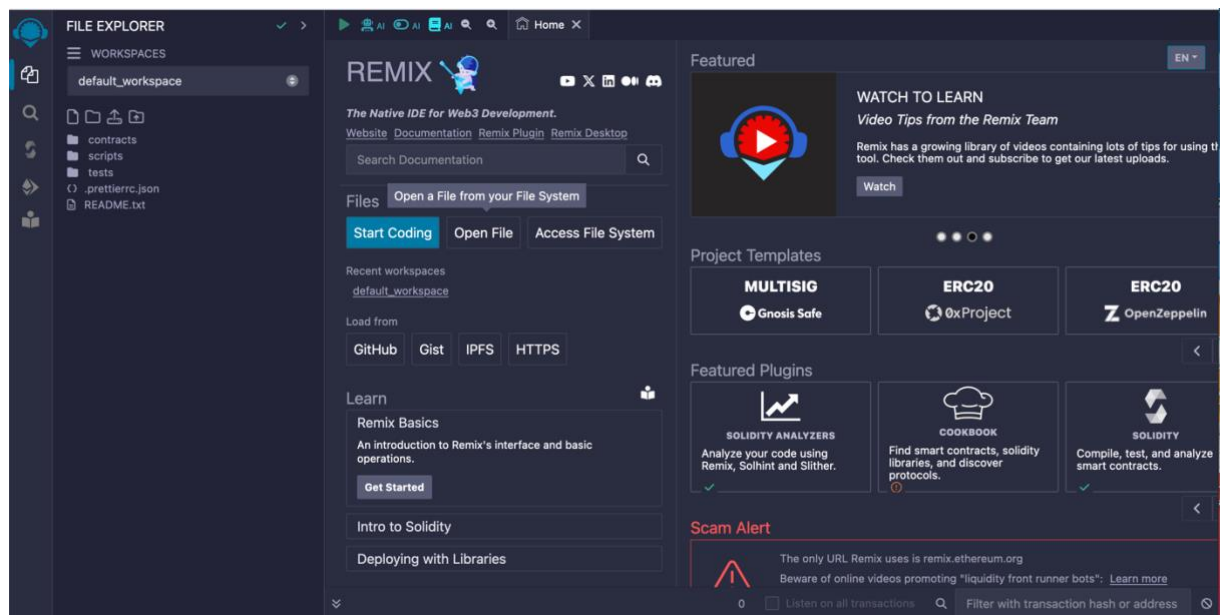
Block #5701918

Overview Consensus Info Blob Info

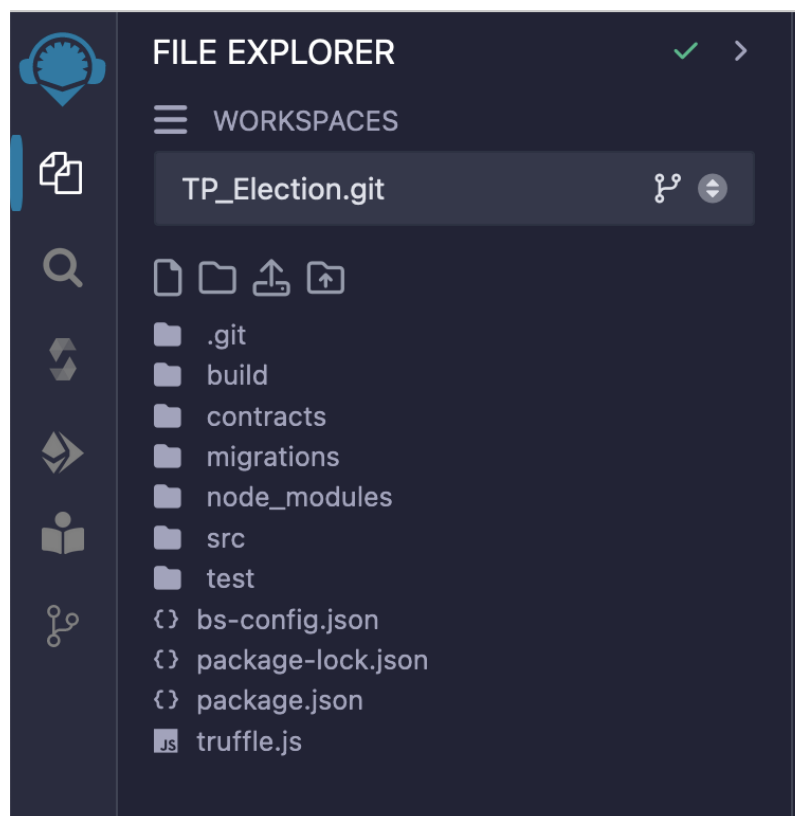
[This is a Sepolia Testnet block only]

Block Height:	5701918 < >
Status:	Unfinalized (Safe)
Timestamp:	6 mins ago (Apr-15-2024 07:16:00 AM +UTC)
Proposed On:	Block proposed on slot 4785980, epoch 149561
Transactions:	86 transactions and 322 contract internal transactions in this block
Withdrawals:	16 withdrawals in this block
Fee Recipient:	0x1268AD189526AC0b386faF06eFfC46779c340eE6  in 12 secs
Block Reward:	0.018695068861944127 ETH (0 + 0.018921017199886664 - 0.000225948337942537)
Total Difficulty:	17,000,018,015,853,232
Size:	49,783 bytes
Gas Used:	12,635,413(42.12%)  -16% Gas Target
Gas Limit:	30,000,000
Base Fee Per Gas:	0.00000000017882149 ETH (0.017882149 Gwei)
Burnt Fees:	0.000225948337942537 ETH
Extra Data:	0x00  geth  go1.21.6  linux (Hex:0xd883010d0b846765746888676f312e32312e36856c696e7578)

j.



l.



m.

ABI :

```
[
  {
    "constant": false,
    "inputs": [
      {
        "name": "_candidateId",
        "type": "uint256"
      }
    ],
    "name": "vote",
    "outputs": [],
    "payable": false,
    "stateMutability": "nonpayable",
    "type": "function"
  },
  {
    "constant": true,
    "inputs": [],
    "name": "candidatesCount",
    "outputs": [
      {
        "name": "",
        "type": "uint256"
      }
    ],
    "payable": false,
    "stateMutability": "view",
    "type": "function"
  },
  {
    "constant": true,
    "inputs": [
      {
        "name": "",
        "type": "uint256"
      }
    ],
    "name": "candidates",
    "outputs": [
      {
        "name": "id",
        "type": "uint256"
      },
      {
        "name": "name",
        "type": "string"
      }
    ]
  }
]
```

```

        },
        {
            "name": "voteCount",
            "type": "uint256"
        }
    ],
    "payable": false,
    "stateMutability": "view",
    "type": "function"
},
{
    "constant": false,
    "inputs": [
        {
            "name": "_name",
            "type": "string"
        }
    ],
    "name": "addCandidate",
    "outputs": [],
    "payable": false,
    "stateMutability": "nonpayable",
    "type": "function"
},
{
    "constant": true,
    "inputs": [],
    "name": "owner",
    "outputs": [
        {
            "name": "",
            "type": "address"
        }
    ],
    "payable": false,
    "stateMutability": "view",
    "type": "function"
},
{
    "constant": true,
    "inputs": [
        {
            "name": "",
            "type": "address"
        }
    ],
    "name": "voters",
    "outputs": [
        {
            "name": "",

```

```

        "type": "bool"
    }
],
"payable": false,
"stateMutability": "view",
"type": "function"
},
{
    "constant": false,
    "inputs": [
        {
            "name": "newOwner",
            "type": "address"
        }
    ],
    "name": "transferOwnership",
    "outputs": [],
    "payable": false,
    "stateMutability": "nonpayable",
    "type": "function"
},
{
    "anonymous": false,
    "inputs": [
        {
            "indexed": true,
            "name": "_candidateId",
            "type": "uint256"
        }
    ],
    "name": "votedEvent",
    "type": "event"
},
{
    "anonymous": false,
    "inputs": [
        {
            "indexed": true,
            "name": "previousOwner",
            "type": "address"
        },
        {
            "indexed": true,
            "name": "newOwner",
            "type": "address"
        }
    ],
    "name": "OwnershipTransferred",
    "type": "event"
}

```


]

BYTE CODE :

6080604052336000806101000a81548173ffffffffffffffffffffffffffffffff021916908373fff
ffffffffffffffffffffffffffffffff160217905550610897806100536000396000f3006080604052
60043610610083576000357c0100
000000000000900463ffffffff1680630121b93f146100885780632d35a8a2146100b55780
633477ee2e146100e0578063462e91ec146101945780638da5cb5b146101fd578063a3e
c138d14610254578063f2fde38b146102af575b600080fd5b34801561009457600080fd5
b506100b3600480360381019080803590602001909291905050506102f2565b005b348
0156100c157600080fd5b506100ca610415565b60405180828152602001915050604051
80910390f35b3480156100ec57600080fd5b5061010b600480360381019080803590602
0019092919050505061041b565b6040518084815260200180602001838152602001828
103825284818151815260200191508051906020019080838360005b838110156101575
7808201518184015260208101905061013c565b50505050905090810190601f16801561
01845780820380516001836020036101000a031916815260200191505b509450505050
5060405180910390f35b3480156101a057600080fd5b506101fb6004803603810190808
03590602001908201803590602001908080601f01602080910402602001604051908101
6040528093929190818152602001838380828437820191505050505050919291929050
50506104dd565b005b34801561020957600080fd5b5061021261055a565b6040518082
73ffffffffffffffffffffffffffffffff1673ffffffffffffffffffffffffffffffff1681526020019150506
0405180910390f35b34801561026057600080fd5b506102956004803603810190808035
73ffffffffffffffffffffffffffffffff16906020019092919050505061057f565b604051808215
151515815260200191505060405180910390f35b3480156102bb57600080fd5b506102f
0600480360381019080803573ffffffffffffffffffffffffffffffff16906020019092919050505
061059f565b005b600160003373ffffffffffffffffffffffffffffffff1673ffffffffffffffffffffffff
ffffffff16815260200190815260200160002060009054906101000a900460ff1615151561
034b57600080fd5b60008111801561035d57506003548111155b151561036857600080f
d5b60018060003373ffffffffffffffffffffffffffffffff1673ffffffffffffffffffffffffffffffff1681
5260200190815260200160002060006101000a81548160ff02191690831515021790555
0600260008281526020019081526020016000206002016000815480929190600101919
0505550807fff3c900d938d21d0990d786e819f29b8d05c1ef587b462b939609625b684
b1660405160405180910390a250565b60035481565b600260205280600052604060002
0600091509050806000015490806001018054600181600116156101000203166002900
480601f0160208091040260200160405190810160405280929190818152602001828054
600181600116156101000203166002900480156104cd5780601f106104a257610100808
3540402835291602001916104cd565b820191906000526020600020905b81548152906
00101906020018083116104b057829003601f168201915b505050505090806002015490
5083565b60036000815480929190600101919050555060606040519081016040528060
0354815260200182815260200160008152506002600060035481526020019081526020
0160002060008201518160000155602082015181600101908051906020019061054992
91906107c6565b506040820151816002015590505050565b6000809054906101000a90
0473ffffffffffffffffffffffffffffffff1681565b600160205280600052604060002060009150
54906101000a900460ff1681565b6000809054906101000a900473ffffffffffffffffffffffff
ffffffff1673ffffffffffffffffffffffffffffffff163373ffffffffffffffffffffffffffffffff1614151561
0663576040517f08c379a000
000000081526004018080602001828103825260188152602001807f4e6f742061757468

N.

Account 1

Nouveau contrat

https://remix.ethereum.org

DÉPLOIEMENT DE CONTRAT

DÉTAILS

HEX

Le réseau est occupé. Les gas fees sont élevés et les estimations sont moins précises.

Estimated fee

0.00085414

0.00085414 SepoliaETH

Marché -30 s **Frais maximaux:** 0.00086147 SepoliaETH

Total

0.00085414


0.00085414 SepoliaETH

Montant + frais de carburant

Montant maximal: 0.00086147 SepoliaETH

Rejeter






Confirmer


METAMASK

Sepolia
Account 1
0x14C3f...cA55F


< / SepoliaETH

0.0092 SepoliaETH

Buy & Sell
Envoyer
Swap
Pont
Portefe...


Apr 15, 2024


Déploiement de contrat

Confirmé

-0 SepoliaETH

-0 SepoliaETH


Recevoir

Confirmé

0.01 SepoliaETH

0.01 SepoliaETH

Overview
State

[This is a Sepolia Testnet transaction only]

Transaction Hash:
0x3463335d2ddc31eed9fbea31ea3bf7ea806c7922d62edd37785d17e5b3d0f48d

Status:
Success

Block:
5702104
2 Block Confirmations

Timestamp:
30 secs ago (Apr-15-2024 07:53:12 AM +UTC)

Transaction Action:
Call 0x60806040 Method by 0x14C3f8d4...E545cA55F

From:
0x14C3f8d4651dd865efdf9161E44864CE545cA55F

To:
[0x8837fd6d8d16a21d06cd7984d2d617f0443b5c18 Created]

Value:
0 ETH (\$0.00)

Transaction Fee:
0.000846170036668656 ETH (\$0.00)

Gas Price:
1.538670021 Gwei (0.000000001538670021 ETH)

Les frais de transactions viennent de l'état du réseau qui peut varier.
En fonction du nombre d'utilisateurs.

Adresse publique du smart contract :
0x8837Fd6D8d16A21d06cd7984d2d617f0443B5C18

O.

Transactions recorded 1 ③ >

Pinned Contracts (chain id: 11155111)

No pinned contracts found for selected workspace & network

Deployed/Unpinned Contracts

▼ ELECTION AT 0X883...B5C18 (E ⓘ ⚙️ ×)

Balance: 0 ETH ⓘ

addCandidate MARTIN ▼

transferOwn... address newOwner ▼

vote uint256 _candidateId ▼

candidates uint256 ▼

candidatesC...

owner

voters address ▼

Low level interactions ⓘ

CALLDATA

Transact

```
14     uint256 id;
15     string name;
16     uint voteCount;
17 }
18
19 // Store accounts that have voted
20 mapping(address => bool) public voters;
21 // Store Candidates
22 // Fetch Candidate
23 mapping(uint => Candidate) public candidates;
24 // Store Candidates Count
25 uint public candidatesCount;
26
27 // voted event
28 event votedEvent ( uint indexed _candidateId);
29
30 function addCandidate (string memory _name) public {
31     candidatesCount ++;
32     candidates[candidatesCount] = Candidate(candidatesCount, _name, 0);
33 }
34
35 function vote (uint _candidateId) public {
36     // require that they haven't voted before
37     require(!voters[msg.sender]);
38
39     // require a valid candidate
40     require(_candidateId > 0 && _candidateId <= candidatesCount);
41
42     // record that voter has voted
43     voters[msg.sender] = true;
44
45     // update candidate vote Count
46     candidates[_candidateId].voteCount ++;
47 }
```

creation of Election pending...

[view on etherscan](#)

[block:5702104 txIndex:33] from: 0x14c...ca55f to: Election.(constructor) value: 0 w

p.

▼ ELECTION AT 0X883...B5C18 (E ⓘ ⚙️ ×)

Balance: 0 ETH ⓘ

addCandidate

_name: "MARTIN"

Calldata Parameters transact

Réseau de test Sepolia

Account 1

→

0x8837F...B5...

https://remix.ethereum.org

0x8837F...B5C18 : ADD CANDIDATE ⓘ

DÉTAILS

HEX

⚠ Le réseau est occupé. Les gas fees sont élevés et les estimations sont moins précises.

Estimated fee

0.00014382

0.00014382 SepoliaETH

Marché -30 s Frais maximaux : 0.00014575 SepoliaETH

Total

0.00014382

0.00014382 SepoliaETH

Montant + frais de carburant

Montant maximal : 0.00014575 SepoliaETH

Rejeter

Confirmer

Sepolia	Account 1	0x14C3f...cA55F
< / SepoliaETH		
0.009 SepoliaETH		
<div>Buy & Sell Envoyer Swap Pont Portefe...</div>		
Apr 15, 2024		
<div>Add Candidate</div> <div>Confirmé</div>	<div>-0 SepoliaETH</div> <div>-0 SepoliaETH</div>	
<div>Déploiement de contrat</div> <div>Confirmé</div>	<div>-0 SepoliaETH</div> <div>-0 SepoliaETH</div>	
<div>Recevoir</div> <div>Confirmé</div>	<div>0.01 SepoliaETH</div> <div>0.01 SepoliaETH</div>	

Transaction Details

<>

Overview

State

[This is a Sepolia **Testnet** transaction only]

Transaction Hash:

0x0235c6188e4f7c7b123cf4f8595455752ef9962fd34cbec51eddbf2da3bfa09a

Status:

Success

Block:

57021455 Block Confirmations

Timestamp:

51 secs ago (Apr-15-2024 08:01:24 AM +UTC)

Transaction Action:

CallAdd CandidateFunction by 0x14C3f8d4...E545cA55F on 0x8837Fd6D...0443B5C18

From:

0x14C3f8d4651dd865efdf9161E44864CE545cA55F

To:

0x8837Fd6D8d16A21d06cd7984d2d617f0443B5C18

Value:

0 ETH (\$0.00)

Transaction Fee:

0.000142556739002396 ETH (\$0.00)

Gas Price:

1.561820621 Gwei (0.000000001561820621 ETH)

q.

ID 1 retourne MARTIN

candidates

<

:

1

Calldata

Parameters

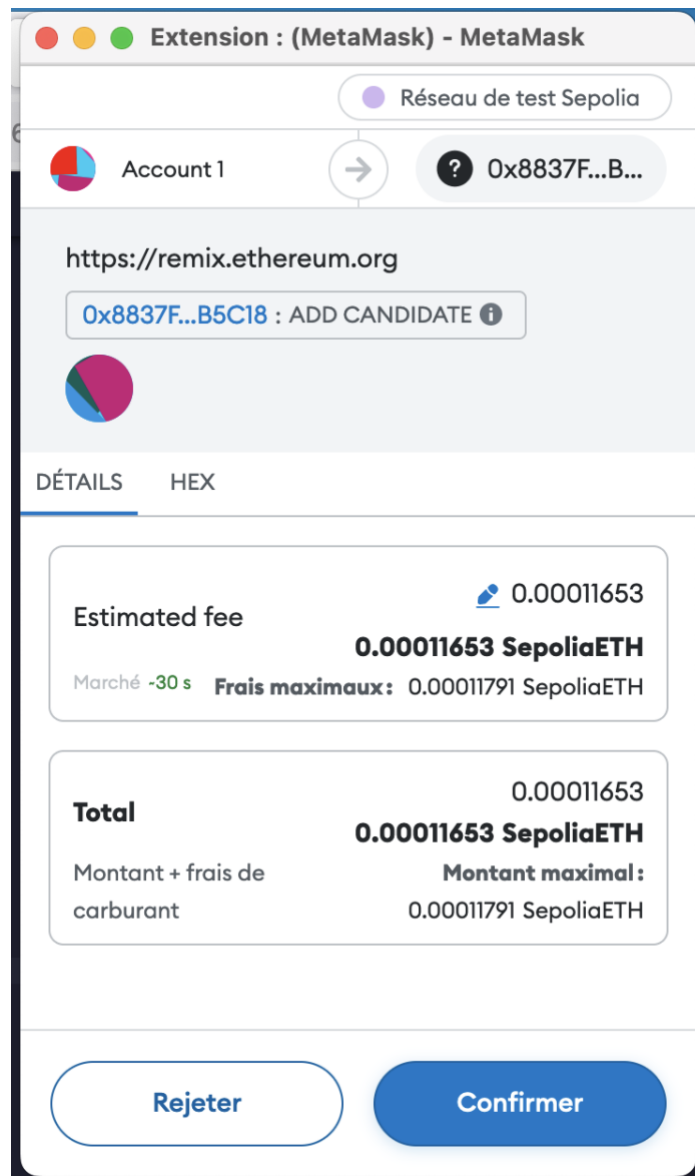
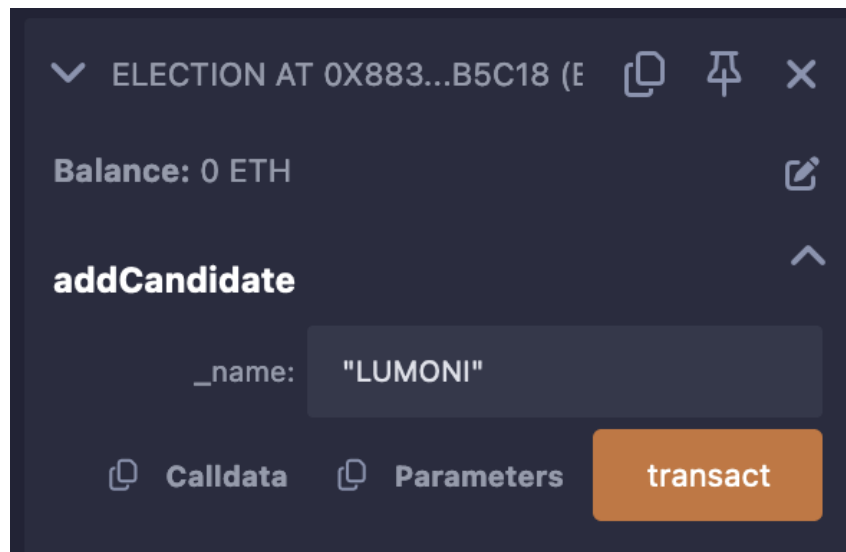
call

0: uint256: id 1

1: string: name MARTIN

2: uint256: voteCount 0

r. Ajout d'un nouvel utilisateur



s.

candidates

:

2

Calldata

Parameters

call

0: uint256: id 2

1: string: name LUMONI

2: uint256: voteCount 0

t.

owner

0: address: 0x14C3f8d4651dd865efdf9161E44864CE545cA55F

u.

Je vote pour le candidat 2.

vote

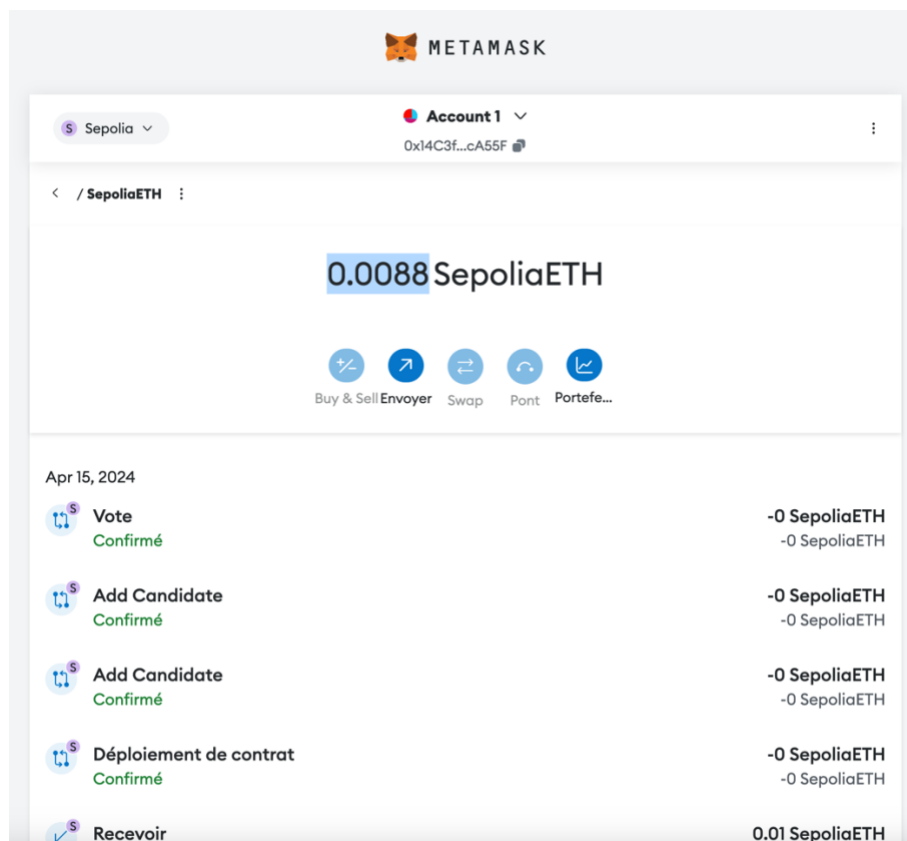
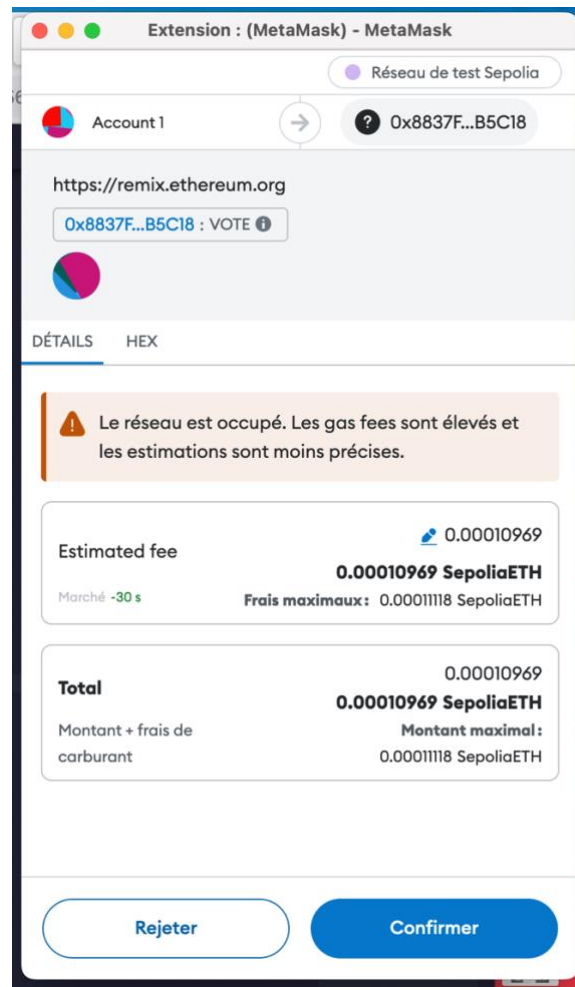
_candidateId:

2

Calldata

Parameters

transact



Transaction Details < >

Overview

Logs (1)

State

[This is a Sepolia Testnet transaction only]

Transaction Hash:

0xb20ea8d84efad828040a5497122d357721fa170339e212617a1c80e2430b6a51

Status:

Success

Block:

5702222 7 Block Confirmations

Timestamp:

1 min ago (Apr-15-2024 08:16:48 AM +UTC)

Transaction Action:

Call Vote Function by 0x14C3f8d4...E545cA55F on 0x8837Fd6D...0443B5C18

From:

0x14C3f8d4651dd865efdf9161E44864CE545cA55F

To:

0x8837Fd6D8d16A21d06cd7984d2d617f0443B5C18

Value:

0 ETH (\$0.00)

Transaction Fee:

0.000108050435293686 ETH (\$0.00)

Gas Price:

1.556003446 Gwei (0.000000001556003446 ETH)

V.

candidates

2

Calldata Parameters call

0: uint256: id 2
1: string: name LUMONI
2: uint256: voteCount 0

->

candidates

2

Calldata Parameters call

0: uint256: id 2
1: string: name LUMONI
2: uint256: voteCount 1

W.

At Address

3BC32983d0CfC7308bD398a

vote

_candidateId:

1

Calldata

Parameters

transact

candidates

uint256

Extension : (MetaMask) - MetaMask

Réseau de test Sepolia

Account 1

→

0x371f4...D398a

https://remix.ethereum.org

0x371f4...D398a : VOTE ⓘ

DÉTAILSHEX

⚠

Le réseau est occupé. Les gas fees sont élevés et les estimations sont moins précises.

Estimated fee

0.00010923 0.00010923 SepoliaETH

Marché -30 s

Frais maximaux: 0.00011055 SepoliaETH

Total

0.00010923 0.00010923 SepoliaETH

Montant + frais de carburant

Montant maximal: 0.00011055 SepoliaETH

Rejeter

Confirmer

candidates

:

"1"

Calldata

Parameters

call

0: uint256: id 1

1: string: name LAZARZ

2: uint256: voteCount 1

x.

Adresse de Etienne LAZARZ

transferOwnership

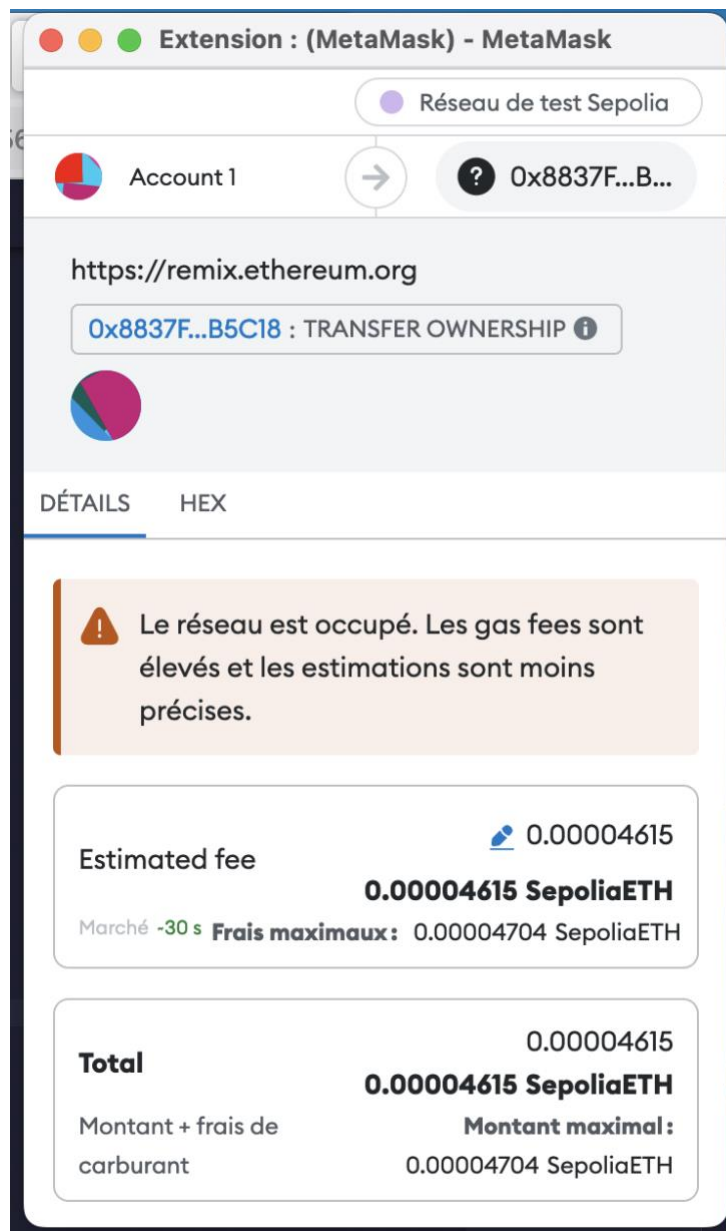
newOwner:

9Aa433ef77c5Bdcc9DD32C0Ab

Calldata

Parameters

transact



y.

Il faudrait restreindre l'accès à addCandidate.

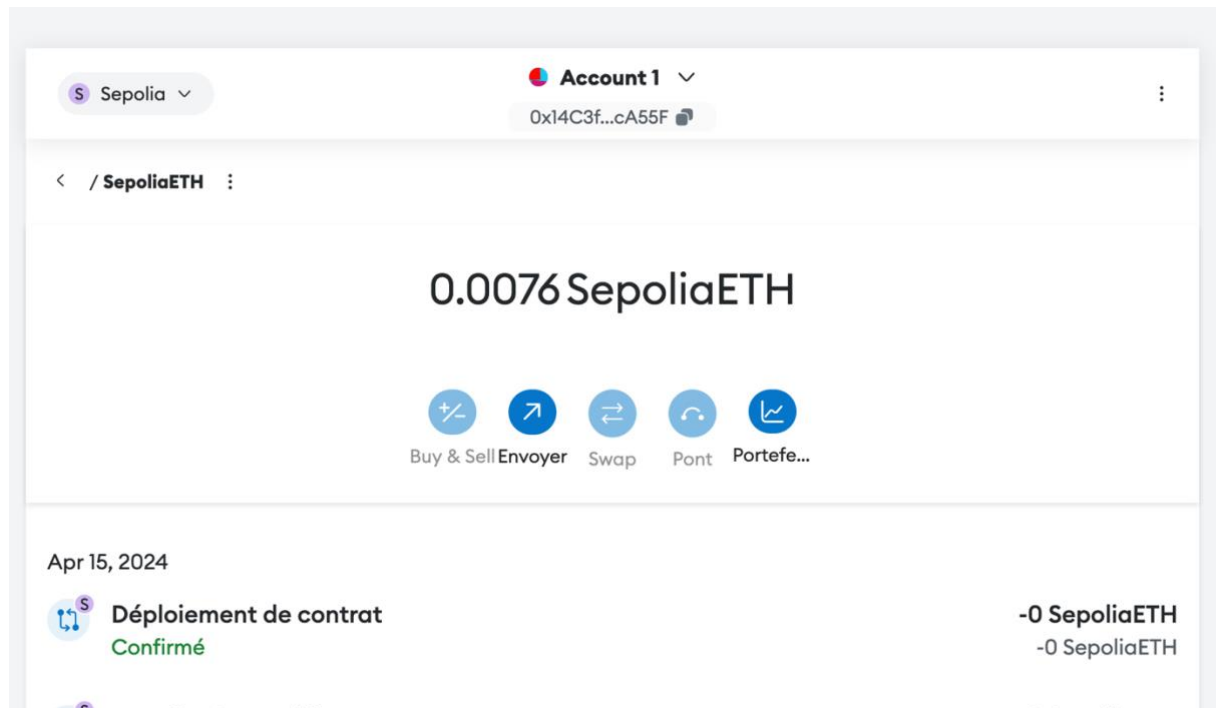
Il faut utiliser onlyOwner dans le fichier ownable.sol car le fichier election.sol hérite de celui-ci.

z.

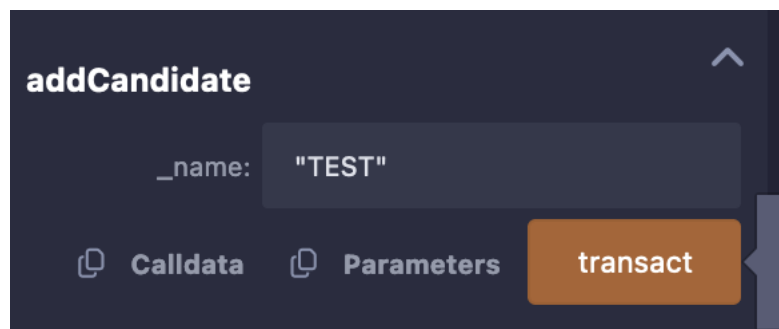
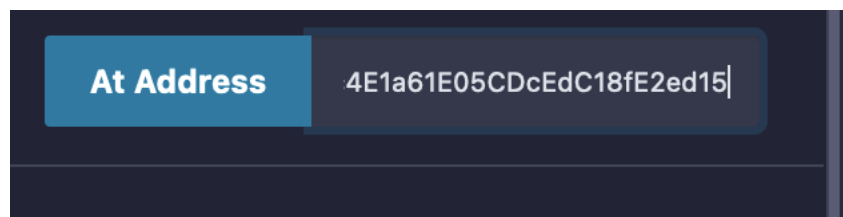
Dans le fichier election.sol, on ajoute onlyOwner.

Par la suite, on redéploie le contrat.

```
function addCandidate (string memory _name) public onlyOwner {
    candidatesCount ++;
    candidates[candidatesCount] = Candidate(candidatesCount, _name, 0);
}
```



J'essaie à nouveau d'interagir avec le nouveau contrat de mon camarade.



Et cette fois-ci ma demande d'ajout de candidat échoue.

