

Mini-project

```
1 // SPDX-License-Identifier: MIT
2 pragma solidity ^0.8.0;
3
4 contract Voting {
5     // Define the structure for a candidate.
6     struct Candidate {
7         string name;
8         uint256 voteCount;
9     }
10
11     // State variables
12     mapping(uint256 => Candidate) public candidates;
13     mapping(address => bool) public voters;
14
15     uint256 public candidatesCount;
16
17     // Contract owner
18     address public owner;
19
20     // Events
21     event Voted(uint256 indexed candidateId);
22
23     constructor() {
24         owner = msg.sender;
25         addCandidate("Candidate 1");
26         addCandidate("Candidate 2");
27     }
28
29     modifier onlyOwner() {
30         require(msg.sender == owner, "Only the contract owner can perform this action");
31         _;
32     }
33
34     function addCandidate(string memory _name) public onlyOwner {
35         candidates[candidatesCount] = Candidate({
36             name: _name,
37             voteCount: 0
38         });
39         candidatesCount++;
40     }
41
42     function vote(uint256 _candidateId) public {
43         require(!voters[msg.sender], "You have already voted");
44         require(_candidateId >= 0 && _candidateId < candidatesCount, "Invalid candidate ID");
45
46         voters[msg.sender] = true;
47         candidates[_candidateId].voteCount++;
48
49         emit Voted(_candidateId);
50     }
51 }
```

DEPLOY & RUN TRANSACTIONS

GAS LIMIT

3000000

VALUE

0

Wei

CONTRACT

Voting - contracts/voting.sol

evm version: paris

Deploy

☐ Publish to IPFS

At Address

Load contract from Address

Transactions recorded 4

Deployed Contracts

VOTING AT 0XF8E...9FBE8 (MEMC)

Balance: 0 ETH

addCandidate

brd

vote

0xAb8483F64d9C6d1EcF!

candidates

uint256

candidatesCou...

0: uint256: 2

owner

0: address: 0x5B38Da6a701c568545dCfcB03FcB875f56beddC4

voters

address

Low level interactions

CALLDATA

Transact

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