ONLINE VOTING SYSTEM USING BLOCKCHAIN

```
Copy code
pragma solidity ^0.8.0;
contract Voting {
  struct Candidate {
    uint id;
    string name;
    uint voteCount;
  }
  mapping(address => bool) public voters;
  mapping(uint => Candidate) public candidates;
  uint public candidatesCount;
  address public electionAuthority;
  constructor() {
     electionAuthority = msg.sender; // Set the election authority as the contract deployer
  }
  function addCandidate(string memory name) public {
     require(msq.sender == electionAuthority, "Only the election authority can add candidates");
     candidatesCount++;
     candidates[candidatesCount] = Candidate(candidatesCount, _name, 0);
  }
  function vote(uint candidateId) public {
     require(!voters[msg.sender], "You have already voted");
     require(_candidateId > 0 && _candidateId <= candidatesCount, "Invalid candidate");
    voters[msg.sender] = true;
    candidates[_candidateId].voteCount++;
  }
  function getCandidate(uint candidateId) public view returns (string memory, uint) {
     require( candidateId > 0 && candidateId <= candidatesCount, "Invalid candidate");
     Candidate memory candidate = candidates[_candidateId];
     return (candidate.name, candidate.voteCount);
  }
```