

## **Election Application**

An **election application** where users can view all candidates or register as candidates and then cast one vote and only one vote to one user other than themselves ( if they are a candidate ). At the end of election, results should be displayed and a winner should be declared.

### **Functional requirements**

- The application should use Metamask to execute transactions on the network.
- Users should
  - a. Register as a voter
  - b. Be able to see a list of candidates
  - c. Register themselves as candidates.
    - i. While registering each candidate should require to make a fixed deposit to participate in the election.
    - ii. Each candidate is a voter by default.
  - d. Cast a vote to other candidates
    - i. Candidates cannot vote for themselves.
- When all voters have cast their vote, the result should be announced.
- Contract retains all fixed deposit except winner.

### **Tech Stack**

- **Solidity** (Smart Contract)
- **Ganache** (Local ethereum test blockchain for testing)
- **Truffle** (DApp Framework)
- **Web3.js**
- **Metamask**
- **Ethereum Network**
- **HTML, CSS, JS/Angular/React**