

1. Voter Registration

- **Actor:** Voter

- **Description:** Allows eligible citizens to register for voting by providing personal information and necessary identification documents.

- **Steps:**

1. Voter accesses the registration portal.
2. Enters personal details (name, address, identification).
3. Uploads necessary documents for verification.
4. System verifies and approves registration.
5. Voter receives confirmation and login credentials.

2. Voting Process

- **Actor:** Registered Voter

- **Description:** Enables registered voters to cast their votes securely and conveniently during election periods.

- **Steps:**

1. Voter logs into the e-voting platform using credentials.
2. Accesses the ballot for the relevant election.
3. Makes selections for preferred candidates or options.
4. Verifies and submits the vote securely.
5. Receives confirmation of the successful vote submission.

3. Candidate Nomination

- **Actor:** Candidate or Representative

- **Description:** Allows individuals running for office to officially declare their candidacy.

- **Steps:**

1. Candidate accesses the nomination section.
2. Submits required information (name, position, manifesto, etc.).
3. Provides necessary documentation for validation.
4. System validates candidacy eligibility.
5. Confirmed candidates appear on the ballot for voting.

4. Admin Management

- **Actor:** System Administrator
- **Description:** Facilitates system oversight and management for administrators.
- **Steps:**
 1. Admin accesses the administrative dashboard.
 2. Monitors system health and performance.
 3. Manages user accounts and access permissions.
 4. Generates reports on voter registration, voting activity, and security logs.
 5. Handles any system-related issues or escalations.

5. Vote Counting and Results Declaration

- **Actor:** System Algorithm/Administrator
- **Description:** Involves the automated or manual counting of votes and announcing the election results.
- **Steps:**
 1. System compiles and counts submitted votes.
 2. Validates votes for authenticity and accuracy.
 3. Calculates the total votes received by each candidate.
 4. Determines the winner(s) based on predefined criteria (majority, proportional representation, etc.).
 5. Announces the election results to the public.

6. Audit and Verification

- **Actor:** Election Oversight Committee/Authorized Auditors
- **Description:** Ensures the integrity and fairness of the election process by conducting audits and verifications.
- **Steps:**
 1. Accesses the system for auditing purposes.
 2. Validates the security measures and voting procedures.
 3. Reviews the voting records and tallies for accuracy.
 4. Conducts checks for any irregularities or discrepancies.

5. Generates a report on the election's fairness and integrity.

These use cases highlight the key functionalities and interactions within an e-voting system, addressing the various actors involved and their respective roles in the electoral process.