**Use case UC1:** Cast Vote

**Context of use:** User cast vote to a ballot   
**Scope:** BetterBallot E-Voting Application  
**Level:** User-Goal  
**Primary Actor:** Voter  
**Stakeholders and Interests:**

* **Voters:** Wants to vote, in an easy non complicated manner which is accurately tracked, counted, and private.
* **Ballot Administer:** Wants a secure accurate count of all the votes fast as possible with the least amount of manual work possible.
* **Ballot Candidates:** Wants a secure accurate count of all the votes, which are accurately tracked for a fair and reliable ballot.

**Precondition:** Voter has their identification verified and authenticated.

**Success Guarantee:** Voter’s individual vote is saved and the current ballot results are updated for a live analysis of the ballots standings.

**Main Success Scenario**

* **Step 1 –** Voter arrives to E-Voting application and is at a screen where you can either login in or register to vote.
* **Step 2** – Voter Registers to Vote by entering all their info into the application.
* **Step 3 –** Voter then logs in with newly created account.
* **Step 4 –** System then displays the current ballot candidates.
* **Step 5 –** Voter then selects which candidate they would like to cast their vote for**.**
* **Step 6 –** System then presents the voters choose, then asks the user to verify that his chose is correct to avoid errors.
* **Step 7 –** System then verifies the voter has only cast one vote and is a valid entry.
* **Step 8 –** System then records vote into the ballot, and calculates the current ballot standings.
* **Step 9 –** System then displays a success message to the voter that their vote was successfully saved into the ballot.

**Extensions:**

\*a. At any time, The voter can login and change their vote.

Voter logs in and clicks “change vote”

System then displays the ballot candidates for the voter to select

Voter then selects the candidate that they would like to change their vote to.

System changes their vote and displays success message.

\*b. At any time, if the system crashes during voting process

1. Ballot Administrator restarts the system.

2. Voter then logs back in, they then restarts the voting process(steps 4-9).

1-6a. Voter wants to cancel their vote.

1. System presents a “cancel vote” option at bottom of each screen.
2. Voter selects the “cancel vote”, which the system then navigates back to the main menu screen.
3. The user select the “log out” option.

6a. Voter selects wrong candidate

1. Voter selects “No”, when system asks if the candidate is correct at step 6.

2. System then restarts at step 4.

7a. Voter tried to cast more than one vote.

1. System signals error and prompts voter they can only vote once.

8a. System fails to save voters vote.

1. System signals error and prompts voter to notify a ballot administrator.
2. Ballot Administrator checks network connectivity, and database connectivity

2a Error found, contact technical support.

1. Ballot Administrator Restart system
2. Voter restarts voting process (steps 4-9).

**Special Requirements:**

Large text to accommodate any special needs.

Easy to use for everyone so everyone is able to vote.

Network Connectivity.

**Technology & Data Variations List:**

1-7a. Mouse and Keyboard to make selection and Voter registration.

**Frequency of Occurrence:** Could be nearly continuous, with up to 1 minute break in-between voters.

**Related Information:** None.