

ELECTION ADMINISTRATOR

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Project Statement

The Ballot Voting System takes much time for the process to take place as from the announcement of election to announcement of the winners. To have a voting system which reduces the time for a whole election process will be more useful. Conducting an election which has the same process as Ballot System will be designed and developed into software for use.

Project Description

The election system which is developed in software can have the same functionalities as the Ballot System.

The normal election process involves the following steps:

1. Announcement of Election
2. Filling for Nominations
3. Election Campaign
4. Polling
5. Counting of votes and announcement of results

The normal steps of the election process involves the above steps which will be monitored by a person and the process will be handled by the co-ordinators. Also the manual work may also lead to errors.

In this project the election officer only is required to run the election. The process will be handled by the software which isn't prone to manual errors.

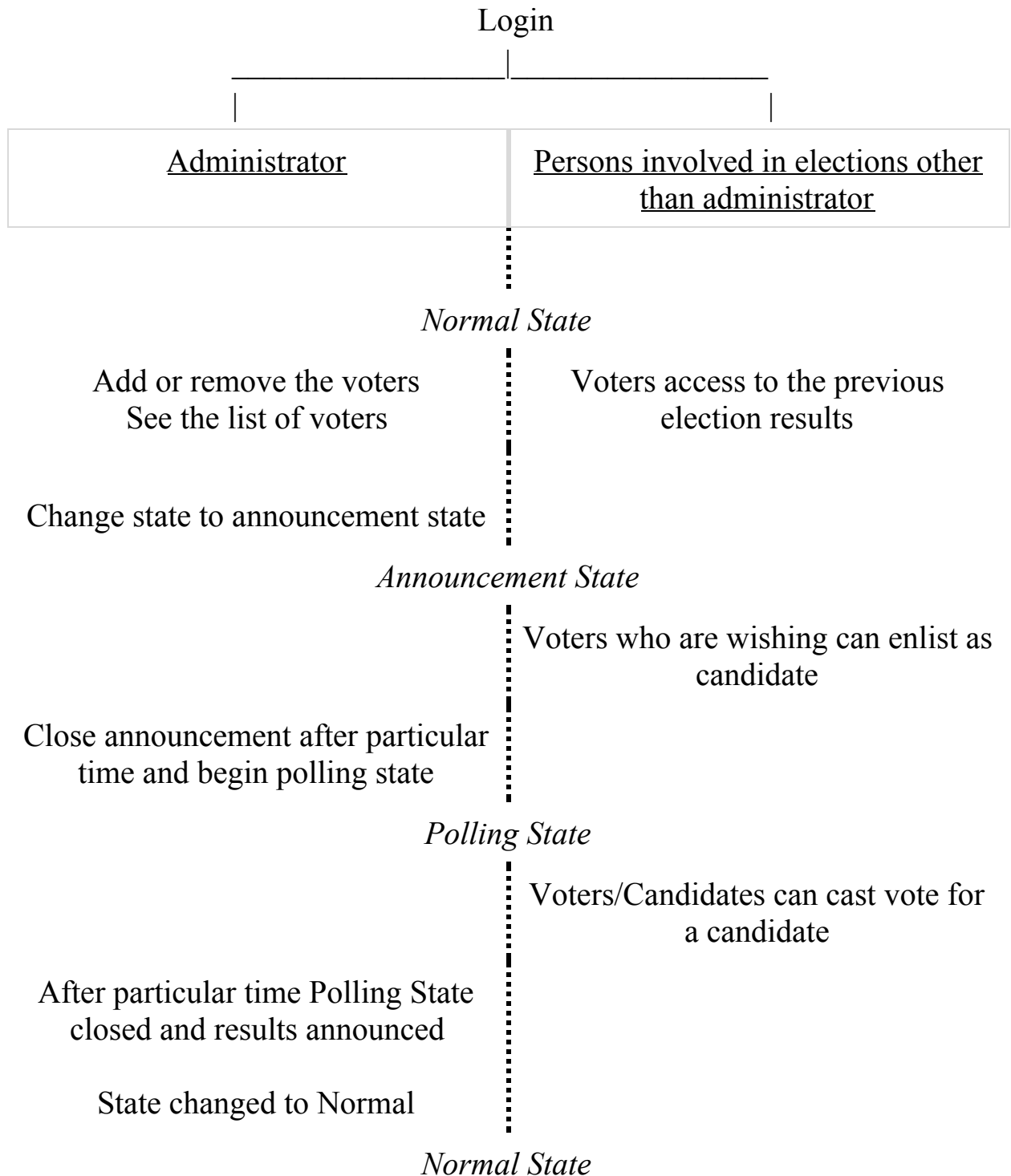
Requirements

The requirements which will be needed during the development of the software are:

1. Work Station (Personal Computer with Windows OS)
2. IDE (Code Blocks)
3. Compiler (GCC Compiler)

The developed software can be executed to conduct the election.

Flow Chart



Test Plan

A test plan is a document detailing the objectives and process for a specific test for a software product. It contains the steps needed to be followed during the testing.

Basic test plan as follows:

- Testing every single module in the project and verifying its work state.
- After testing each module integrated testing to be done. A module's output will change the other module's behaviour. It gets to be tested.
- After integrated testing, a whole system gets to be tested with various inputs which leads to several states.

A simple list of modules which must be tested with its condition are given below:

- The user must be able to vote for their desired candidates.
- Multiple voting of the user should be avoided.
- The administrator should be able to add or remove a candidate.
- All events are registered in a file for future use like who has obtained how much votes
- Admin can change each state whenever admin wishes.
- Administrator or Voter can login to the system at any time.

Test Cases

Test Case 01:

Login with correct credentials by either administrators or voters

Excepted Results:

As credentials are correct they should login into the election system.

Test Case 02:

Login with wrong credentials by either administrators or voters

Excepted Results:

As credentials are wrong they would get a message as incorrect credentials.

Test Case 03:

Administrators login during the normal state and add voters to the database with credentials.

Excepted Results:

Voter has been added to the database with login credentials.

Test Case 04:

Administrators login during the normal state and add the same voter to the database with credentials once again.

Excepted Results:

A message that a voter has already been added to the database is displayed.

Test Case 05:

Administrators login during the normal state and remove voters from the database.

Excepted Results:

Voter has been removed from the database.

Test Case 06:

Administrators login during the normal state and remove the same voter to the database once again.

Excepted Results:

A message that a voter has already been removed from the database is displayed.

Test Case 07:

Administrator changing the state from normal to announcement.

Excepted Results:

State has changed from normal to announcement.

Test Case 08:

Voter enlisting as candidate for contesting in the election.

Excepted Results:

Voter has been added to the contestant list for the election.

Test Case 09:

Voter enlisting as candidate once again for contesting in the election.

Excepted Results:

Voter can't be added as a voter already in the contestant list.

Test Case 10:

Administrator changing the state from announcement to polling.

Excepted Results:

State has changed from announcement to polling.

Test Case 11:

Voter login for casting the vote.

Expected Results:

Voter's vote has been counted.

Test Case 12:

Voter login again for casting the vote.

Expected Results:

Voter's vote shouldn't get counted.

Test Case 13:

Administrator changing the state from polling to normal.

Expected Results:

State has changed from polling to normal.

Test Case 14:

Administrator/Voter can login and see the result of the previous election.

Expected Results:

The previous election result gets displayed.

Conclusion

This Voting System has an authentication feature that will manage the Voter's information. There is a file in which all the names of voters with complete information is stored and it provides the tools for maintaining voter's vote to every candidate and also computes the total number of votes of every candidate. This voting system offers speed and convenience to the voter and considerable ease to election administrators as they can get election results out more quickly than conventional methods of manual voting since vote counting is just a matter of querying the database.

The success factors include:

- Faster electoral process.
- A better platform for the disabled as well as the outright elimination of multiple voting.
- Finally, the integrated system would avail the electorate the opportunity of casting their votes using the most convenient means.
- The adoption of this system is likely to increase the level of participation in the polity because of the ease of voting and its tendency to eliminate electoral fraud.