

IC PROJECT - FOUR'NICS

MINI VOTING SYSTEM

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Introduction

The C program performs the functions of a basic voting system. It takes the input from the admin and user and accordingly calculates the candidate with the maximum number of votes. The program ensures a fair, secure and efficient election by taking care of all possible test cases that can occur in a voting system.

Purpose

A voting system which calculates the winner of an election with admin and voter authentication

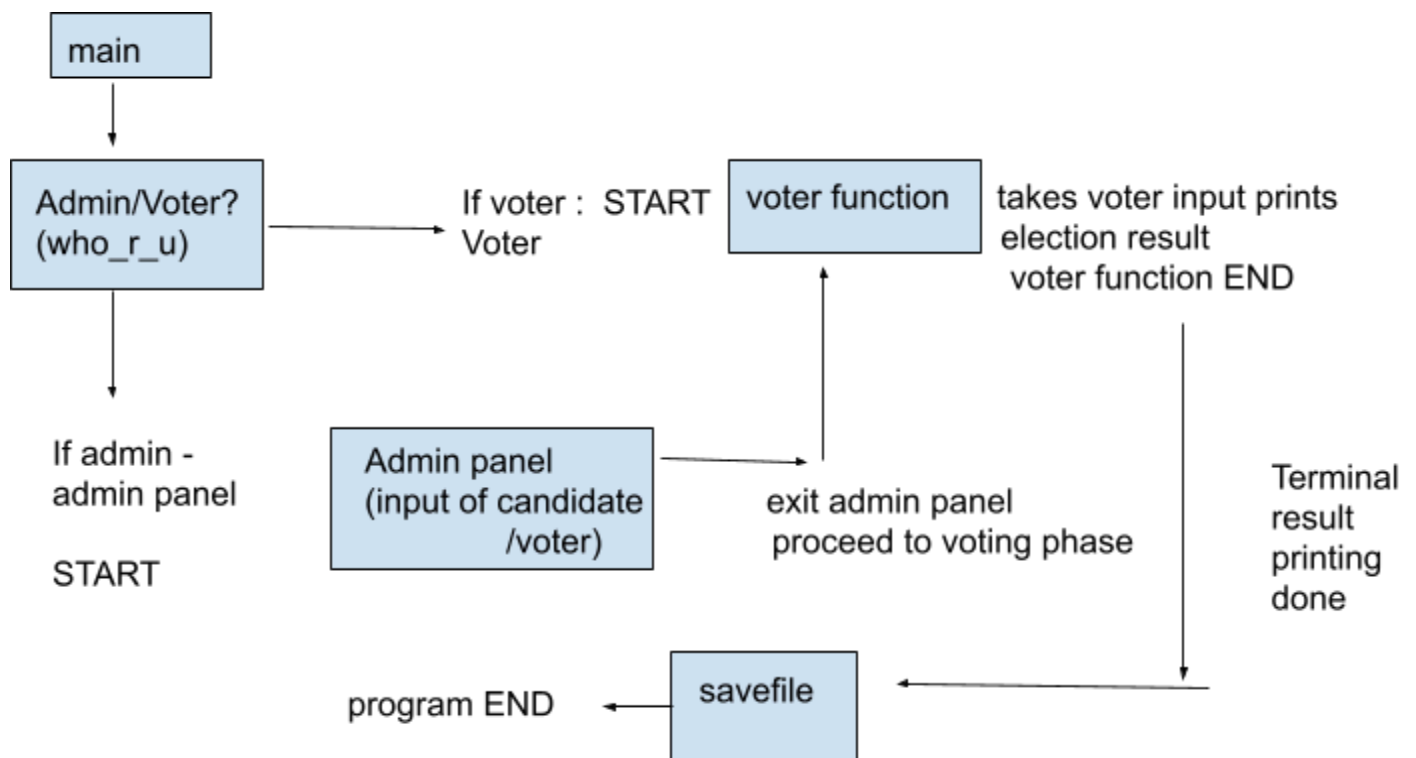
Key features

Admin panel, NOTA option, tied vote handling, GUI,

Functions Used

1. who_r_u : Determines if the user is a voter or admin
2. admin : admin voter authentication check
3. admin_panel : for the admin to input the candidate and voter information
4. voter : takes candidate vote input from the voter
5. savefile : it saves the voting results to a text file so that the results are recorded even after the program ends.
6. authenticator_voter : prevents double voting by the same voter.

Visual representation



Key Features

1. **NOTA Implementation** : Describes how NOTA is treated as a candidate.
2. **Error Handling** : Invalid votes or admin inputs are re-prompted.
3. **Tie Handling** : Logic for detecting and handling ties in votes.
4. **File-Based Result Storage** : Results are saved persistently for future reference.
5. **Password Based** : checks for admin voter authentication.
6. **Adjustable voter memory** : using dynamic memory allocation for storing vote count .
7. **Preventing voter error** : allocates ID to every voter to minimize double voting errors.

Final Output

Program Execution

```

                                                                 Welcome Admin !!

Admin Panel Verification
Enter the password: FOUR'NICS

                                                                 Welcome Admin !!

Number of candidates: 2
Enter name of Candidate 1: Darpan
Enter name of Candidate 2: Siddhi
Number of voters: 2
Enter voter IDs:
Voter 1 ID: 11
Voter 2 ID: 12
Voters initialized successfully.

----- EXIT ADMIN PANEL -----

----- ENTERING VOTING PANEL-----

Enter your Voter ID: 11
1
Enter your Voter ID: 12
2

Voter 1, give your vote (1 to 2) or 0 for NOTA:

Voter 2, give your vote (1 to 2) or 0 for NOTA:

----- Voting Results -----

NOTA got 0 votes
Darpan got 1 votes
Siddhi got 1 votes

The election is Tied!
```

Voting_record.txt output.

```
≡ Voting_record.txt
1  ----- The Voting Results for this Voting are -----
2
3  1.)NOTA got 0 votes
4  2.)Darpan got 1 votes
5  3.)Siddhi got 1 votes
6
7  The election is Tied!
8  ----- The Voting Results for this Voting are -----
9
10 1.)NOTA got 1 votes
11 2.)Darpan got 1 votes
12 3.)Siddhi got 1 votes
13
14 The election is Tied!
15
```