

Voting Management System in C

University of Petroleum and Energy Studies (UPES)

Course: B.Tech CSE

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Problem Definition

- The Voting Management System in C automates the voting process.
- It allows voters to cast their votes securely, prevents multiple voting by the same person, and displays real-time results.
- This project demonstrates structured programming, file handling, and use of arrays and loops in C.

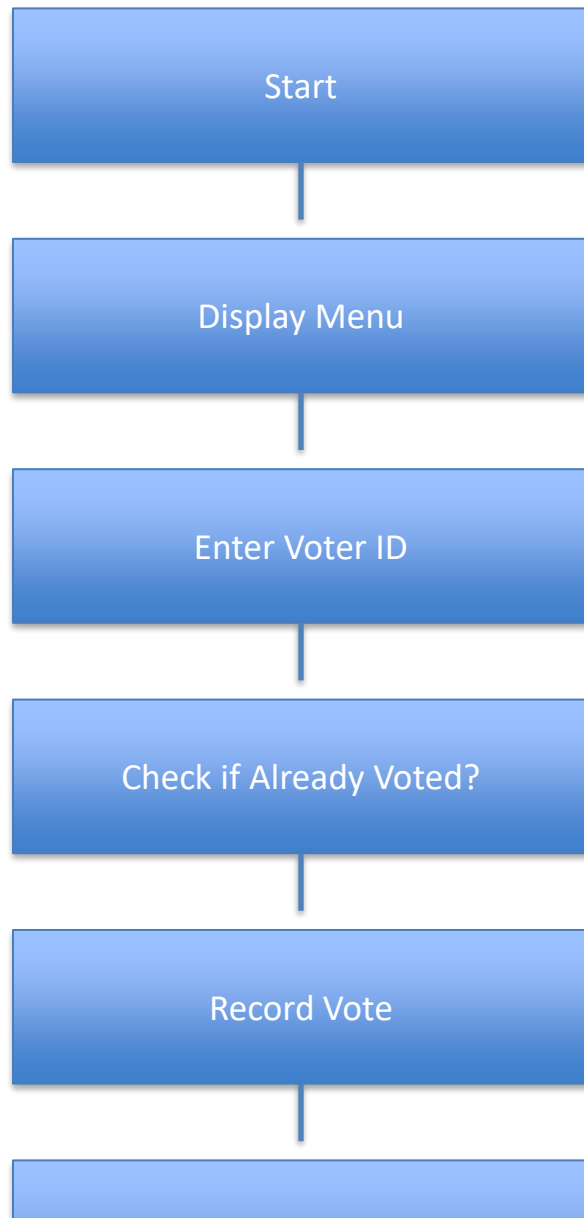
Objectives

- - To automate the voting process using C programming
- - To prevent duplicate votes
- - To store votes and display results in real-time
- - To gain understanding of structures and file handling

Algorithm

- Algorithm for Vote Casting:
- 1. Start
- 2. Display candidate list
- 3. Input voter ID and choice
- 4. Check if voter has already voted
- 5. If not, record vote
- 6. Mark voter as voted
- 7. Stop

Flowchart – Voting Process



Sample Output

- ===== Welcome to the Voting System =====
- 1. Cast Vote
- 2. Show Result
- 3. Exit
- Enter Voter ID: 5
- Candidates:
- 1. Sambhav

File / Folder Structure

- VotingProject/
 - |
 - |— main.c // Main program file
 - |— voting.h // Header file with structure definitions
 - |— voting.c // Contains functions (castVote, showResult)
 - └─ votes.dat // Data file created during runtime

Team Contributions

- Sambhav Parihar:
 - - Designed voting logic and program structure
 - - Created algorithms and flowcharts
- Chahat Sangwan:
 - - Handled output design, testing, and presentation formatting

Appendix – C Code Snippet

- `#include <stdio.h>`
- `#include <string.h>`
- `struct Candidate { char name[50]; int votes; };`
- `int main() {`
- `struct Candidate c[4] = { {"Sambhav",0},`
`{"Jashan",0}, {"Chahat",0}, {"Raghav",0} };`
- `int choice;`
- `printf("1. Cast Vote\n2. Show Results\n3.`
`Exit\n");`

Conclusion

- The Voting Management System in C successfully automates voting operations.
- It ensures fairness, accuracy, and simplicity for users.
- The project provided deep understanding of file handling, loops, and structures.
- It is a practical application of C programming in real-life scenarios.

Thank You