

FOUR'NICS E-VOTING SYSTEM README

Introduction

The FOUR'NICS E-VOTING SYSTEM is a simple command-line based electronic voting system designed to simulate a voting process where voters can cast their votes for predefined candidates. It differentiates between two types of users : Admins, who can set up candidates and manage the election, and Voters, who can cast their votes. There will be two separate interfaces - one for admin and other one for voter updation.

Instructions

- 1) The password for admin verification panel is <**FOUR'NICS**>.
- 2) To run the GUI application, open the folder <**VotingSystem GUI**>
- 3) Double click on the file labeled
<**b24cs1020_b24bb1036_b24bb1016_b24cm1043_gui.exe**>
- 4) Now you can run the GUI application and follow the prompts given to execute the rest of the program

DLL :

- A DLL (Dynamic Link Library) is a library that contains code and data that can be used by more than one program at the same time.
- The error message indicates that the executable cannot run because it's missing required DLL files.
- This is a common issue when using GTK-based applications outside of the Linux environment, as these applications rely on several GTK and GLib DLLs that aren't normally part of Windows.

Features

1. Admin Authentication: Admin access requires a password to ensure that only authorized personnel can manage the election.
2. Candidate and Voter Setup: Admins can input the names of candidates and a list of eligible voters.
3. Voting Process: Voters can cast their votes for candidates or choose the "None of the Above" (NOTA) option.
4. Results Display: The system displays the vote count for each candidate and determines the winner or if there's a tie.
5. Data Persistence: Voting results are saved in a text file for record-keeping.

Functionality

1. Admin Authentication:

- Admins can enter a predefined password to access the administrative panel where candidates and voters are managed.
- Both the panels are separated.
- Complete verification is required to reach the admin panel for giving information of both voter and admin.

2. Voting Process:

- All registered voters can vote.
- The program checks for valid voter IDs, ensuring that only authorized voters can participate. It ensures that every unique voter votes only one time.
- Every individual voter's ID will be stored and matched with the pre-existing ids that are mentioned in the admin panel by the authority for false voter prevention and authorization.
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3. Vote Count and Results:

- The program counts the votes for each candidate and determines the winner or if a tie exists, displaying the results accordingly.

4. Saving of the results in a txt file.

File Structure

Voting_system.c : The main C file containing the source code. This source code is used to calculate the votes.

Voting_record.txt : A text file generated by the program where voting results are saved.

Contributors

Darpan Baviskar - contributed for the GUI establishment using GTK library

Likhita Halarameshwara - contributed for the GUI establishment using GTK library ,

Siddhi Vinayak - contributed to the writing of the program's C code and its framework.

Krish Jain - contributed to the writing of the program's C code and its framework.