Simple Voting System Using C Programming

Final Project Report

Submitted by:

Sainath Patil

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Objective

To develop a console-based voting system in the C programming language that allows users to vote, view vote counts, and display the winner securely.

Abstract

This project demonstrates a basic voting system written in C. It allows users to cast votes for predefined candidates, view the vote count for each candidate, and determine the winner using a password-protected admin option. The project utilizes fundamental programming concepts such as conditionals, loops, and functions.

Tools and Technologies Used

- Language: C

- Compiler: GCC (MinGW or Linux gcc)

- Platform: Terminal / Command Prompt

Features

- Cast votes for predefined candidates

- Display current vote count

- Password-protected result viewing

- Exit option to terminate the system

Conclusion

The Simple Voting System is successfully implemented in C using a menu-driven approach. It demonstrates user interaction, data counting, and decision-making processes clearly and effectively.

Future Enhancements

- Add user login or voter ID system

- Prevent multiple voting

- Store votes in a file for persistence

- Upgrade to GUI version using a desktop or web framework

GitHub Repository

You can find the complete code here: `https://github.com/Sainathp5599/Simple-Voting-Sys`

Source Code

```c
#include <stdio.h>
#include <unistd.h>

int main()
{
    int pass;
    int n = -1;
    int sumit = 0;
    int rahul = 0;
    int raj = 0;

    while (n != 0)
    {
        printf("Voting Menu\n");
        printf("Press 1 for Rahul\n");
        printf("Press 2 for Sumit\n");
        printf("Press 3 for Raj\n");
        printf("Press 4 to view vote counts\n");
        printf("Press 5 to view the winner\n");
        printf("Press 0 to Exit\n");
        printf("Enter your choice: ");

        scanf("%d", &n);
        printf("\n");

        switch (n)
        {
        case 1:
            rahul++;
            break;
        case 2:
            sumit++;
            break;
        case 3:
            raj++;
            break;
        case 4:
            printf("Raj: %d\n", raj);
            printf("Sumit: %d\n", sumit);
```

```c
            printf("Rahul: %d\n", rahul);
            printf("\n");
            break;
        case 5:
            while (pass != 5599)
            {
                printf("Enter admin password: ");
                scanf("%d", &pass);
                if (pass == 5599)
                {
                    printf("Calculating results");
                    for (int i = 5; i > 0; i--)
                    {
                        printf("...%d", i);
                        fflush(stdout);
                        sleep(1);
                    }
                    printf("\n");
                    if (raj > sumit && raj > rahul)
                        printf("Raj is the winner\n");
                    else if (sumit > raj && sumit > rahul)
                        printf("Sumit is the winner\n");
                    else if (rahul > sumit && rahul > raj)
                        printf("Rahul is the winner\n");
                    else
                        printf("There is no winner (tie)\n");

                    n = 0;
                    break;
                }
                else
                {
                    printf("Incorrect password! Try again\n\n");
                }
            }
            break;
        case 0:
            printf("Exiting the voting system. Goodbye!\n");
            break;
        default:
            printf("Invalid choice! Please try again.\n");
```

```
            break;
        }
    }

    return 0;
}
```

Thank You