

PROJECT PROPOSAL

CT-175

Submitted To

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Team Members:

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Digital Voting Machine Simulation

1. Introduction

We have chosen the topic “**Implement a Digital Voting Machine Simulation to Record and Display Results**” (Topic 28).

This topic caught our attention because it is straightforward yet offers ample opportunity for enhancement. By incorporating arrays and the **string.h** library, we can utilize functions such as **strcmp()** and other string operations to manage and compare character data effectively.

This allows us to store and process essential voter information such as **Nationality, Name, Age, Status, Possession of CNIC, and Employment details**.

Furthermore, this project serves as an excellent opportunity to apply and demonstrate our **newly acquired programming skills** and to explain the program’s working through an engaging presentation.

2. Objective

The objective of this project is to develop a **digital voting machine simulation** that can record data for multiple individuals and determine their **eligibility to vote** based on specific criteria.

The eligibility conditions include:

- **Nationality:** Only citizens of Pakistan are eligible to vote.
- **Age:** Must be **at least 18 years old**.
- **Possession of CNIC:** Voters must have a valid CNIC.

The program will evaluate each person’s information and decide whether they are eligible to vote. It will also record, store, and display the results, ensuring a clear and organized simulation of an electronic voting process.

3. Expected Outcome

By completing this project, we aim to:

- Create a **functional simulation** that processes and validates voter data.
 - Implement **array handling** and **string operations** for efficient data management.
 - Display results in a clear, user-friendly format.
 - Demonstrate our understanding of **conditional statements**, **loops**, and **functions** in C programming.
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4. Tools and Languages

- **Programming Language:** C
 - **Libraries Used:** stdio.h, string.h
 - **Development Environment:** Code::Blocks / Dev-C++ / Visual Studio Code
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