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Course Title: Data Structure Lab
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Lab Project Name: Online Voting System

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Lab Project Status

Marks: Signature: Comments:

..... Date:

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Chapter 1

Introduction

1.1 Introduction

Almost every activity in the world today is controlled by computer driven software programs. This trend was first accommodated by engineering applications in the past. However, as the life style became more and more complex, every area of human interactions was invaded by various software systems, such as real time, business, simulation, embedded, web based, personal and more recently, artificial intelligence software etc. According to the above facts, managing and maintaining a book shop could also be controlled by efficient software. This project focuses attention on designing efficient and reliable software which controls the transactions of a online voting system.

1.2 Goals/Objective

Online voting system is the web application to automate all kinds of operations in the voting and this software is based on C programming language. The purpose of this software is to manage the voting. I am trying to develop this software to maintain voting. That means a vote which has the type system which provides the facility to the voter of the vote to purchase the vote from the vote without any complexity.

Modules of Online Voting System

1. Cast the Vote.
2. Find Vote Count.
3. Find leading Candidate.
4. Exit.

Chapter 2

Implementation of the Project

2.1 Implementation

```
#include<stdio.h>

#define CANDIDATE_COUNT

#define CANDIDATE1 "David Hull"
#define CANDIDATE2 "Kristin Canella"
#define CANDIDATE3 "Jim Brar"
#define CANDIDATE4 "Donald Truimph"

int votesCount1=0, votesCount2=0, votesCount3=0, votesCount4=0, spoiledtvotes=0;

void castVote(){
int choice;
printf("\n\n ### Please choose your Candidate ####\n\n");
printf("\n 1. %s", CANDIDATE1);
printf("\n 2. %s", CANDIDATE2);
printf("\n 3. %s", CANDIDATE3);
printf("\n 4. %s", CANDIDATE4);
printf("\n 5. %s", "None of These");

printf("\n\n Input your choice (1 - 4) : ");
scanf("%d",&choice);

switch(choice){
    case 1: votesCount1++; break;
    case 2: votesCount2++; break;
    case 3: votesCount3++; break;
    case 4: votesCount4++; break;
    case 5: spoiledtvotes++; break;
    default: printf("\n Error: Wrong Choice !! Please retry");
        //hold the screen
        getchar();
}
```

```
printf("\n thanks for vote !!");  
}
```

```
void votesCount(){  
printf("\n\n ##### Voting Statics #####");  
printf("\n %s - %d ", CANDIDATE1, votesCount1);  
printf("\n %s - %d ", CANDIDATE2, votesCount2);  
printf("\n %s - %d ", CANDIDATE3, votesCount3);  
printf("\n %s - %d ", CANDIDATE4, votesCount4);  
printf("\n %s - %d ", "Spoiled Votes", spoiledtvotes);  
}
```

```
void getLeadingCandidate(){  
    printf("\n\n ##### Leading Candiate #####\n\n");  
    if(votesCount1>votesCount2 && votesCount1>votesCount3 && votesCount1  
>votesCount4)  
        printf("[%s]",CANDIDATE1);  
    else if (votesCount2>votesCount3 && votesCount2>votesCount4 && votesCount2  
>votesCount1)  
        printf("[%s]",CANDIDATE2);  
    else if(votesCount3>votesCount4 && votesCount3>votesCount2 && votesCount3  
>votesCount1)  
        printf("[%s]",CANDIDATE3);  
    else if(votesCount4>votesCount1 && votesCount4>votesCount2 && votesCount4  
>votesCount3)  
        printf("[%s]",CANDIDATE4);  
    else  
        printf("----- Warning !!! No-win situation-----");  
  
}
```

```
int main()  
{  
int i;  
int choice;
```

```
do{  
printf("\n\n ##### Welcome to Election/Voting 2019 #####");  
printf("\n\n 1. Cast the Vote");  
printf("\n\n 2. Find Vote Count");  
printf("\n\n 3. Find leading Candidate");  
printf("\n\n 0. Exit");
```

```
printf("\n\n Please enter your choice : ");
scanf("%d", &choice);

switch(choice)
{
case 1: castVote();break;
case 2: votesCount();break;
case 3: getLeadingCandidate();break;
default: printf("\n Error: Invalid Choice");
}
}while(choice!=0);

getchar();

return 0;
}
```

2.2 Output

```
##### Welcome to Election/Voting 2019 #####  
  
1. Cast the Vote  
2. Find Vote Count  
3. Find leading Candidate  
0. Exit  
  
Please enter your choice :
```

Figure 1: Main Menu Interface

```
### Please choose your Candidate ###  
  
1. David Hull  
2. Kristin Canella  
3. Jim Brar  
4. Donald Truimph  
5. None of These  
  
Input your choice (1 - 4) :
```

Figure 2: Candidate Information

```
##### Voting Statics ###  
David Hull - 1  
Kristin Canella - 2  
Jim Brar - 1  
Donald Truimph - 0  
Spoiled Votes - 0
```

Figure 2: Voting Statics

```
#### Leading Candiate ####  
  
[Kristin Canella]
```

Figure 2: Leading Candidate

Chapter 4

Conclusion.

3.1 Learning Outcome

By completing this project, I would be able to understand and visualize the inner working of computer system sand this C language architecture and the overall concepts that drive my project programming. As a programming language, C also allows me to write more complex and comprehensive programs. To solve this project now I am able to define and manage data structures based on problem subject domain. Ability to work with textual information, characters and strings. Ability to work with arrays of complex objects. Understanding a concept of object thinking within the framework of a functional model.

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