Green University of Bangladesh

Department of Computer Science and Engineering (CSE)

Faculty of Sciences and Engineering
Semester: (Summer, Year: 2021), B.Sc. in CSE (Day)

Course Title: Data structure lab
Course Code: CSE 106 Section: 213DC

Lab Project Name: Online Voting System

Student Details

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[For Teachers use only: Don't Write Anything inside this box]

Lab Project Status

Marks: …… **Signature: .....**

Comments: ..... **Date: .....**

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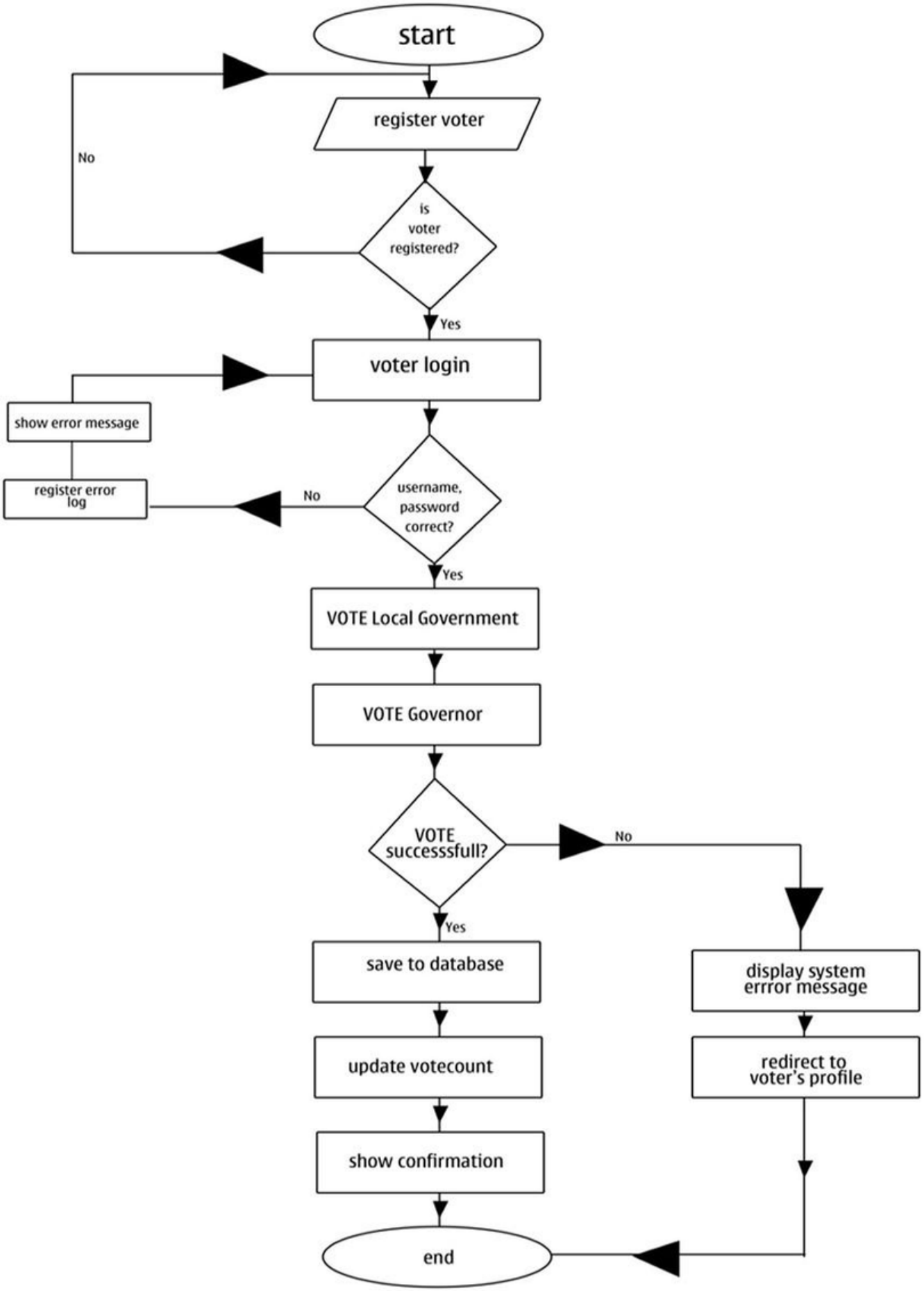
start
register voter
No
is voter registered?
Yes
voter login
show error message
register error log
No
username, password correct?
Yes
VOTE Local Government
VOTE Governor
VOTE successsfull?
No
Yes
save to database
update votecount
show confirmation
display system errror message
redirect to voter's profile
end

Project Source Code:

```c
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <windows.h>
#include<conio.h>
typedef struct voter_information
{
   char NID[10];//NID num of size
   char name[50];//name size
   char birth_date[15];// date of birth size
   struct voter_information *next;// voter information each voter
} node;

node *head;
node *space,*start=NULL;
node *search(char x[],char y[],char z[],node *,int *);
node *voter_insert(node *);
node *main_logs(node *);
 void admin();
 void winner();
   void exi();
   void voting();
   void not_again();
   void stop();
   void show();


int count=0,R=3,vote=0;
int vote1=0,vote2=0,vote3=0,vote4=0,vote5=0;
int main()
```

```
{
   while(1){

   system("cls");
   printf("\n\n\n");
   printf("\t          ****** WELCOME TO THE ONLINE VOTING PORTAL ******       \n\n");

   printf("\t         ************************************************       \n\n\n\n\n");
   printf("       \t\t *****Please Enter One(1) for logging vote main Logs*****    \n\n\n");
   int BB;

   scanf("%d",&BB);
   if(BB==1)
   {
    start=  main_logs(start);
   }

}
   return 0;
}

node *main_logs(node *start)
{
   system("cls");
   printf("\n\n\n");
   printf("       \t\t\t1. FOR VOTE ENTRY     \n");
   Sleep(300);
   printf("       \t\t\t2. FOR ADMIN PANEL    \n");
   Sleep(300);
   printf("       \t\t\t3. FOR WINNER        \n");
```

```
61      printf("    \t IF YOUR CREDENTIALS MATCHES WITH THOSE IN THE VOTER LIST
62      Sleep(500);
63      printf("    \t ********So Plz Enter********\n\n\n");
64      int T;
65      scanf("%d",&T);
66      if(T==1)
67      {
68        start= voter_insert(start);
69      }
70      if(T==2)
71      {
72       admin();
73      }
74      if(T==3)
75      {
76       winner();
77      }
78      if(T!=1||T!=2||T!=3)
79      {
80         main_logs(start);
81      }
82
83
84      return start;
85  }
86
87
88  node *voter_insert(node *start)
89  {
90      int UNIVERSAL=0;
```

```
int *z;
z = &UNIVERSAL;
    node *temp;
    char name[50],birth_date[15],NID[20];
    system("cls");
    printf("\n\n\n\n");
    printf("\t IF National  ID, YOUR NAME AND YOUR DATE OF BIRTH MATCHES THEN YOU CAN GIVE YOUR VOTE OTHERWISE NOT\n\n");
    Sleep(300);
    printf("\t\t\t ID YOU DO WRONG %d TIMES, THE PORTAL WILL BE CLOSED AUTOMATICALLY\n\n\n",R);
    Sleep(300);
    printf("\t\tPlease \n");
    Sleep(300);
    printf("\t\t\tEnter your National ID number  ");
    gets(NID);
    gets(NID);
    printf("\t\t\tEnter Your NAME   ");
    gets(name);
    printf("\t\t\tEnter Your BIRTH DATE  in dd-mm-yyyy format  ");
    gets(birth_date);
    temp=(node *)malloc(sizeof(node));
    strcpy(temp->NID,NID);
    strcpy(temp->name,name);
    strcpy(temp->birth_date,birth_date);
    temp->next=NULL;
    head=temp;#define NULL __null
    while(temp!=NULL)
    {
      if((strcmp(temp->NID,"10001")==0&& strcmp(temp->name,"Sajid hossain")==0 &&strcmp(temp->birth_date,"31-03-1999")==0) ||
      (strcmp(temp->NID,"10002")==0&& strcmp(temp->name,"Joy")==0 &&strcmp(temp->birth_date,"01-01-1999")==0)||
      (strcmp(temp->NID,"10003")==0&& strcmp(temp->name,"shakil khan")==0 &&strcmp(temp->birth_date,"12-10-1999")==0)||
```

```
            start=search(temp->NID,temp->name,temp->birth_date,start,&UNIVERSAL);

            if(UNIVERSAL==0)
            {
                voting();
            }
            else
             {
                not_again();
             }
           }
          else
            {
              R--;
          if(R==0)
          {
             stop();
             break;
          }
          printf("\n\n\n\n");
          printf("\tYour National ID or NAME or DATE OF BIRTH is wrong\n\n");
          Sleep(300);
          printf("\t\t\tPlz Re-Enter\n\n");
          Sleep(300);
          system("pause");
         start= main_logs(start);
    }
            temp=temp->next;
}
```

```
157     return start;
158 }
159
160
161 void voting()
162 {
163     system("cls");
164     printf("\n\n\n\n");
165     printf("\t\t     * * * * * LIST OF CANDIDATES * * * * * \n\n\n");
166     Sleep(300);
167     printf("\t\t\t NAME     & THEIR RESPECTIVE      SYMBOL\n\n");
168     Sleep(300);
169     printf("\t\t\t 1SHEIKH HACHINA                    1.BOAT\n\n");
170     Sleep(300);
171     printf("\t\t\t 2.BEGUM KHALEDA JIA               2.PADDY\n\n");
172     Sleep(300);
173     printf("\t\t\t 3.ARSHARD                        3.LANGUL \n\n\n");
174
175
176
177     int B,j;
178     printf("\t\t\t  PLEASE CHOSSE YOUR FAVARIT CANDIDATE  \n");
179     for(j=1;j<=1;j++)
180     {
181         scanf("%d",&B);
182
183         if(B==1)
184         {
185             vote1++;
186             printf("\n\n\t\t\t\t\tYOU HAVE SUCCESSFULLY GIVEN YOUR VOTE TO SHEIK HACHINA\n");
```

```
            break;

        }
        if(B==2)
        {
            vote2++;
             printf("\n\n\t\t\t\t\tYOU HAVE SUCCESSFULLY GIVEN YOUR VOTE TO BEGUM KHALEDA JIA \n");
            break;

        }
        if(B==3)
        {
            vote3++;
             printf("\n\n\t\t\t\t\tYOU HAVE SUCCESSFULLY GIVEN YOUR VOTE TO ARSHARD \n");
            break;

        }



         if(B!=1||B!=2||B!=3 )
        {
         printf("\n\t\t********** INVALID CHOICE ENTERED**********\t\t\n");
         printf("\n\t\t\tENTER AGAIN\t\t\t\n");
        }


    }
    printf("\n\n**************************THANK YOU**************************\n\n");
```

```
217         printf("press any key");
218         getch();
219     }
220
221     void admin()
222     {
223         int B;
224         printf("\n\n\n\n");
225         printf("\t\t\t\t\tEnter Your Password To Unlock The Admin Panel\n\n");
226         scanf("%d",&B);
227         if(B==1111)
228         {
229             show();
230
231         }
232         else
233         {
234             printf("Wrong Password\n");
235         }
236     }
237
238     void show()
239     {
240       int G;
241         system("cls");
242
243         printf("\n\n\n\n");
244         printf("\t\t\tPresent Vote Count :\n\n");
245         Sleep(500);
246         printf("\t\t\t  SHEIKH HACHINA is on     %d Votes\n",vote1);
```

```
    Sleep(500);
    printf("\t\t\tBEGUM KHALEDA JIA is on     %d Votes\n",vote2);
    Sleep(500);
    printf("\t\t\tARSHARD is on      %d Votes\n",vote3);
    Sleep(500);



    printf("\t\t\t\t\tEnter Any Key For Main Logs\n\n\t\t\t\t\t\t\t\tOR\n\n\t\t\t\t\tENTER THE SPECIAL PASSWORD TO CLOSING VOTING PORTAL\n ");
   scanf("%d",&G);
   if(G==1234)
   exi();
   else
   main_logs(start);

}

void winner()
{
   system("cls");
   printf("\n\n\n\n");
   if(vote2<vote1 && vote3< vote1  )
    printf("\t\t\tThe present Winner Is SHEIKH HACHINA and she has got %d votes\n\n\n\n",vote1);

   if(vote1<vote2 && vote3< vote2 )
    printf("\t\t\tThe present Winner is BEGUM KHALEDA JIA  and she has got %d votes\n\n\n\n",vote2);

    if(vote1<vote3 && vote2< vote3  )
    printf("\t\t\tThe present Winner is ARSHARD  and she has got %d votes\n\n\n\n",vote3);

    printf("\t\t\t\t\tEnter Any Key for Main Log\n\n");
    getch();
    main_logs(start);

}

void stop()
{
   system("cls");

   printf("\n\n\n\n");
   printf("\t\t\t (:-SORRY YOU ENTERED WRONG CREDENTIALS FOR THREE(3) TIMES IN A ROW -:) \n\n\n");
   Sleep(500);
   printf("\t\t\t Plz try again After A few Moment\n\n\n");
   Sleep(500);
   printf("\t\t\t * * *Thank You* * *  \n\n\n");
   Sleep(500);
   printf("press any key");
   getch();

}

void not_again()
{
    int A;
    system("cls");
    printf("\n\n\n\n");
    printf("\t\t\t       ***YOU HAVE GIVEN YOUR VOTE SUCCESSFULLY***       \n\n\n");
    Sleep(300);
    printf("\t\t\t       ***YOU CANNOT GIVE YOUR VOTE MORE THAN ONCE***     \n\n\n");
```

```
307         Sleep(300);
308         printf("\t\t\t If You want to see present winner Enter One(1) or Enter Any Other Key for Main  Logs\n\n");
309         Sleep(300);
310 
311         scanf("%d",&A);
312         if(A==1)
313         {
314            winner();
315         }
316         else
317         {
318            main_logs(start);
319         }
320 
321     }
322 
323     void exi()
324     {
325        system("cls");
326 
327        printf("\n\n\n\n\n\n");
328        Sleep(500);
329        printf("\t\t\t       ***YOU ARE NOW EXITING THE PORTAL***      \n\n\n");
330        Sleep(1000);
331        printf("\t\t\t * * *THANK YOU FOR USING This ONLINE PLATFORM For VOTING* * *  \n\n\n");
332        Sleep(1000);
333        exit(0);
334     }
335 node *search(char x[],char y[],char z[],node *start,int *Y)
336 {
```

```
337     *Y=0;
338   node *t,*space;
339   if(start==NULL)
340   {
341      space=(node*)malloc(sizeof(node));
342     strcpy(space->NID,x);
343     strcpy(space->name,y);
344     strcpy(space->birth_date,z);
345
346      start=space;
347      space->next=NULL;
348
349   }
350   else
351   {
352     t=start;
353     while(t!=NULL)
354      {
355        if((strcmp(t->NID,x)==0&& strcmp(t->name,y)==0 &&strcmp(t->birth_date,z)==0))
356        {
357          *Y=1;
358
359          break;
360        }
361            t=t->next;
362      }
363
364        if(*Y==0)
365        {
366
367              space=(node*)malloc(sizeof(node));
368
369              strcpy(space->NID,x);
370
371              strcpy(space->name,y);
372
373              strcpy(space->birth_date,z);
374              t=space;
375              space->next=NULL;
376
377         }
378    }
379    return start;
380   }
381
```

Output

```
          ****** WELCOME TO THE ONLINE VOTING PORTAL ******

         ***********************************************



               *****Please Enter One(1) for logging vote main Logs*****
```

```
                        1. FOR VOTE ENTRY
                        2. FOR ADMIN PANEL
                        3. FOR WINNER
  IF YOUR CREDENTIALS MATCHES WITH THOSE IN THE VOTER LIST THEN ONLY YOU CAN GIVE YOUR VOT



  ********So Plz Enter********
```

```
     IF National  ID, YOUR NAME AND YOUR DATE OF BIRTH MATCHES THEN YOU CAN GIVE YOUR VOTE OTHERWISE NOT

                   ID YOU DO WRONG 3 TIMES, THE PORTAL WILL BE CLOSED AUTOMATICALLY


            Please
                    Enter your National ID number  10001
                    Enter Your NAME   Sajid hossain
                    Enter Your BIRTH DATE  in dd-mm-yyyy format



     Your National ID or NAME or DATE OF BIRTH is wrong

                   Plz Re-Enter

ss any key to continue . . .
```

```
          * * * * * LIST OF CANDIDATES * * * * *

              NAME      & THEIR RESPECTIVE       SYMBOL

              1SHEIKH HACHINA                        1.BOAT

              2.BEGUM KHALEDA JIA                  2.PADDY

              3.ARSHARD                            3.LANGUL

               PLEASE CHOSSE YOUR FAVARIT CANDIDATE
```

```
          * * * * * LIST OF CANDIDATES * * * * *

              NAME      & THEIR RESPECTIVE       SYMBOL

              1SHEIKH HACHINA                        1.BOAT

              2.BEGUM KHALEDA JIA                  2.PADDY

              3.ARSHARD                            3.LANGUL

               PLEASE CHOSSE YOUR FAVARIT CANDIDATE


                    YOU HAVE SUCCESSFULLY GIVEN YOUR VOTE TO BEGUM KHALEDA JIA

**********THANK YOU**********

s any key
```

```
Present Vote Count :

  SHEIKH HACHINA is on     0 Votes
BEGUM KHALEDA JIA is on      1 Votes
ARSHARD is on       0 Votes
                Enter Any Key For Main Logs

                              OR

                ENTER THE SPECIAL PASSWORD TO CLOSING VOTING PORTAL
```

```
The present Winner is BEGUM KHALEDA JIA  and she has got 1 votes


        Enter Any Key for Main Log
```

Chapter 3 Conclusion **10**

3.1 Learning Outcome

Online voting system project allows people in today's mobile and digitally advanced society to participate in the democratic process over the internet. The POLYA'S online voting system offers the highest levels of transparency, control, security and efficiency of election processes. Online votings provide voters with a comfortable and secure voting experience and allow election organizers to save resources in planning their next election. 12

Future Scope

The scope of this project will be the guidelines throughout this project to ensure project will conducted itâ€™s intend objectives. At the end of this project, it should be eventually achieved. The MPP Online Voting System will be developed in order to make an election process more flexible and easy to use for students, MPP candidates and management staffs in JMTi. From a technical viewpoint the elections are made up of the following components:

a.Calling of elections
b.Registration of candidates
c.Preparation of polling list
d.Voting

e.Counting of votes.

References

REFERENCES

Anderson C. (2006). How to Rig a Democracy: A Timeline of Electronic Voting in the United States. *The Independent.* Retrieved November 28, 2006 from: http://www.indypendent.org/?p=608

Bellis, M. (2007). The *History of Voting Machines.* Retrieved November 9, 2006 from: http://inventors.about.com/library/weekly/aa111300b.htm

Cranor, L.F., & Cytron, R.K. (1996). Design and Implementation of a Security-Conscious Electronic Polling System. *Washington University Computer Science Technical Report (WUCS).* Retrieved October 9, 2006 from: http://www.acm.org/crossroads/ords2-4/voting.html