Topic : Online Voting System for Reality Show

Group no : MLB_10.01_09

Campus : Malabe

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We declare that this is our own work, and this Assignment does not incorporate without acknowledgment any material previously submitted by anyone else in SLIIT or any other university/Institute. And we declare that each one of us equally contributed to the completion of this Assignment.

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PART 1

1)

User Requirement

1. The system provide the service specific time for voting.

2. In order to get the service the guest must register in the web site.

3. To register, the guest must enter the name, address, E-mail and NIC number.

4. Phone number and a valid password.

5. Unregistered member can access only home page, about us page, contact us page if unregistered member wants to access the website they need to register.

6. User need to log into system and provide username, password.

7. If an error occurs in log-in process, the guest re-register to the system.

8. After registering to the website, the voter can register the system, and choose candidate as voter's choice.

9.The system admin can access the details of registered member.

10.The system admin can view all the feedback, comments and reports.

11.System admin can access the inquiries which is sent by voters.

12.System admin can validate the user entered data.

13.User can give the feedback regarding the quality of the service.

2)

Noun/Verb Analysis

Red = Verb

Green = Noun

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4. Phone number and a valid password.

5. Unregistered member can access only home page, about us page, contact us page if unregistered member wants to access the website they need to register.

6. User need to login to system and provide username, password.

7. If an error occurs in log-in process, the guest re-register to the system.

8. After registering to the website, the voter can logging to the system, and choose candidate as voter's choice and vote to selected candidate.

9.The candidate must present their item at the appropriate time.

9.The system admin can access the details of registered member.

10.The system admin can view all the feedback, comments and reports.

11.System admin can access the inquiries which is sent by voters.

12.System admin can validate the user entered data.

13.User can give the feedback regarding the quality of the service.

14.Voting system manager should count votes.

15.Voting system manager should analyze votes, make reports and publish the result by admin.

16.Digital marketing manager can create target audience and then update social media.

17.Sponcer gives away prizes to the winners.

Nouns

- System
- Guest
- web site
- register
- name
- address
- E-mail
- NIC number
- Phone number
- valid password
- Unregistered member
- home page
- about us page
- contact us page
- User
- Username
- Password
- Error
- log-in process
- voter
- candidate
- system admin
- details
- registered member
- feedback
- comments
- reports
- inquiries
- data
- Voting system manager
- Votes
- Digital marketing manager
- social media
- sponsor
- prizes
- winner
- item
- appropriate time

- result

Verb

- Provide
- Service
- Register
- Enter
- Access
- Login
- Provide
- Occurs
- re-register
- registering
- choose
- view
- sent
- validate
- entered
- give
- present
- count
- analyze
- make
- publish
- create
- update

Identified classes

- register

- Unregistered member
- Candidate
- System admin
- Registered member
- Inquiries
- Voting system manager
- Votes
- Digital marketing manager
- Sponsor

Attributes

- Name
- name
- address
- E-mail
- NIC number
- Phone number
- valid password
- Username
- password

Redundant

- Guest
- User
- Voter
- Login process
- Details
- Feed back
- Comments
- Reports
- Inquiries
- Candidate
- winners

Outside the scope

- web site
- Social media
- Item
- appropriate time
- prizes
- result
- Sponsor
- Digital marketing manager

Meta language

- data

An event or an operation

- Error

3)

Class name: System	
Responsibility	**Collaborators**
Display details	
Store data	
Validate registered data	System admin
Check time duration	

Class name: unregister member	
Responsibility	**Collaborators**
Visit the website	
Register to the website	Register

Class name: register member	
Responsibility	**Collaborators**
Login to system	System
Choose candidate	candidate
vote to selected candidate	
Give feedback, comments	System admin

Class name: Candidate	
Responsibility	**Collaborators**
present their item at the appropriate time	system

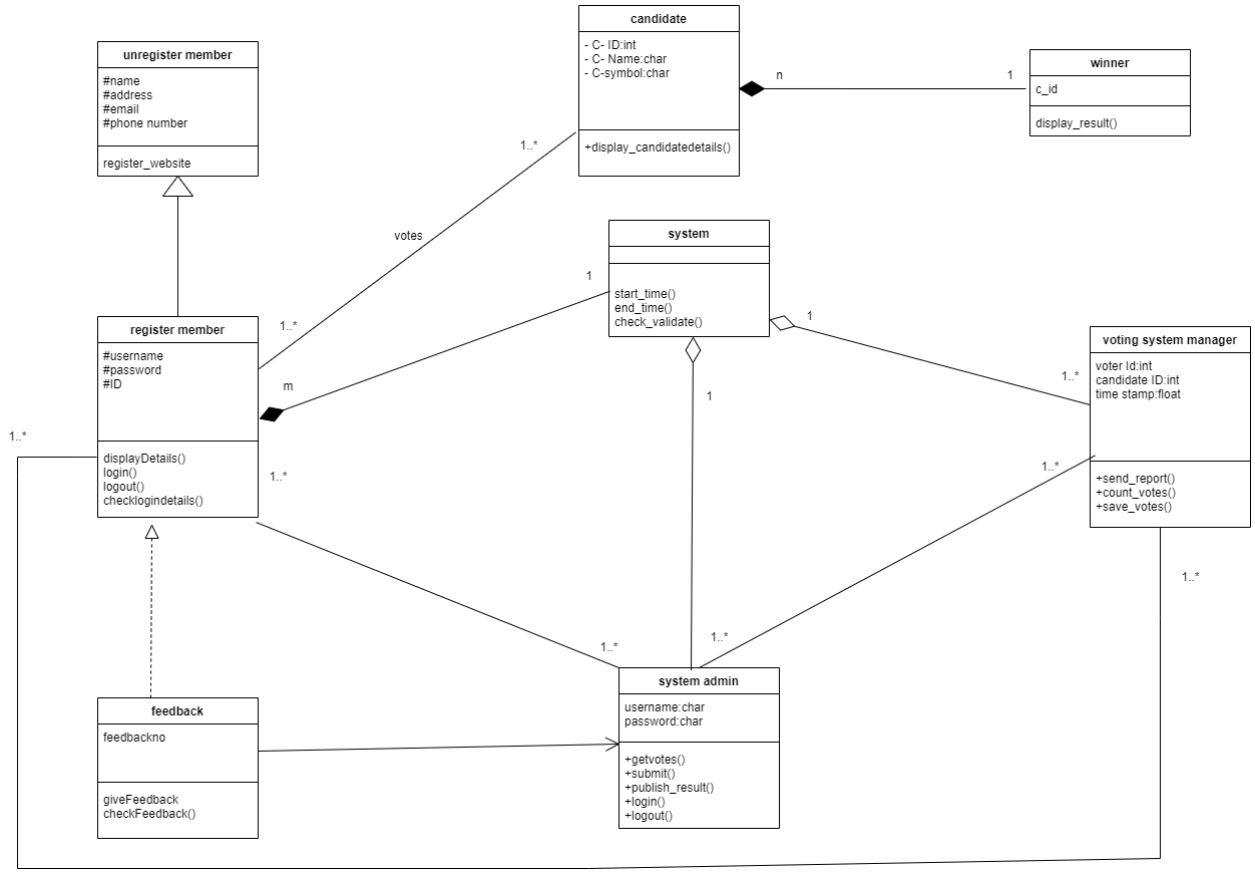
Class name: System admin	
Responsibility	**Collaborators**
Validate all the details	System
Update the system details	

Create the reports	Voting system manager
View feedback, comments	candidate
Access inquiries	

Class name: winner	
Responsibility	**Collaborators**

Class name: Voting system manager	
Responsibility	**Collaborators**
count votes	voter
analyze votes	system
make reports	
publish the result	Admin

Class name: feedback	
Responsibility	**Collaborators**
Give feedback	candidate
Check feedback	System admin



- **Register_Member.h**

```
#include <iostream>

#include <cstring>

#include "candidate.h"
```

```
#include "system.h"
#include "System_admin.h"
#include "voting_system_manager.h"
#include "unregister_member.h"
#include "feedback.h"
using namespace std;

class register_mebmber{
        private :
                char username[20];
                char password[20];
                int ID;

                Candidate * candidate[5];
                System * system;
                System_Admin * admin[5];
                Voting_System_Manager * VSM[5];

        public :
   register_mebmber();
   register_mebmber(char user[], char pw[] , int id);
   void displayDetails();
   void login();
   void logout();
   void checkLoginDetails();
   ~register_mebmber();
};
```

- **Register_Member.cpp**

```
#include <iostream>

#include "register_member.h"


register_member::register_mebmber(){

    strcpy(username," ");

                                strcpy(password ," ");

                                ID = 0;

}

register_member::register_mebmber(char user[], char pw[] , int id){

    strcpy(username,user);

                                strcpy(password,pw);

                                ID =id;

}

void register_member::displayDetails(){

  cout<<"Your Username is :"<< username <<endl <<"Your Pasword is :"<<password<<endl <<"Your
ID is:"<<ID<<endl;

}

void register_member::login(){

  cout<<"Login Successfuly"<<endl;

}

void register_member::logout(){

  cout<<"Logout Successfuly"<<endl;

}

void register_member::checkLoginDetails(){
```

```
}
void register_member::~register_mebmber(){


}
```

- **Unregister_member.h**

```
#include <iostream>
#include <cstring>
#include "register_member.h"
using namespace std;

class unregister_member{

        protected :
                int phone_number;
                char email[30];
                char Name[20];
   char Address[30];

  public:
          unregister_member();
   unregister_member(int
   pnumber,char em[],char
   name[],char address[]);
   void register_website();
};
```

- **Unregister_member.cpp**

```
#include <iostream>
#include "unregister_member.h"

unregister_member::unregister_mebmber(){
  phone_number = 0;
                                strcpy(email," ");
                                strcpy(Name," ");
                                strcpy(Address," ");
                        }
unregister_member::unregister_mebmber(int pnumber,char em[],char name[],char address[])
{
            phone_number = pnumber;
                                strcpy(email,em);
                                strcpy(Name,name);
                                strcpy(Address,address);
}
void unregister_member:: unregister_website(){

}
```

- **Candidate.h**

```
#include <iostream>
#include <cstring>
#include "register_member.h"
```

```
#include "winner.h"
using namespace std;

class Candidate {
        private:
                int C_ID;
                char C_Name[20];
                int C_Symbol;

                Winners * winner;
                Regiter_member * RM[5];

  public:
    Candidate();
    Candidate(int c_id , char c_name[] , char c_symbol[]);
    void Display_CandidateDetails();
    ~Candidate();
};
```

- **Candidate.cpp**

```
#include <iostream>
#include "candidate.h"

candidate::Candidate(){
                C_ID= 0;
```

```
                strcpy(C_Name," ");
            C_Symbol = 0;
                }
candidate::Candidate(int c_id , char c_name[] , char c_symbol[]){
                        C_ID = c_id;
                        strcpy(C_Name,name);
            C_Symbol = c_symbol;
                }
void candidate:: Display_CandidateDetails(){
                        cout<<"Candidate id is :"<< C_ID <<endl <<"Candidate name is
:"<<C_Name<<endl <<"Candidate Symbol is:"<<C_Symbol<<endl;
                }
                void candidate::~Candidate(){

                }
```

- **System_admin.h**

```
#include <iostream>
#include <cstring>
#include "voting_system_manager.h"
#include "register_member.h"
#include "system.h"
#include "feedback.h"
using namespace std;

class System_admin{
        privat :
```

```
    char username[20];
            char password[20];

    Voting_System_Manager * VSM[5];
            register_member * RM[5];

  public:
    System_admin();
    System_admin(char user[] , char pw[]);
    void login();
    void logout();
    void getvotes();
    void submit();
    void publish_result();
    ~System_admin();
};
```

- **System_admin.cpp**

```
#include <iostream>
#include "system_admin.h"

system_admin::System_admin(){
                strcpy(username," ");
                strcpy(password," ");
            }
system_admin::register_mebmber(char user[], char pw[] , int id){
```

```
                    strcpy(username,user);
                    strcpy(password,pw);
                    ID =id;
                }

void system_admin:: login(){
                cout<<"Login Successfuly"<<endl;
            }
void system_admin::logout(){
    cout<<"Logout Successfuly"<<endl;
            }
void system_admin:: getvotes(){

            }
void system_admin:: submit(){

            }
void system_admin:: publish_result(){

            }
void system_admin::~System_admin(){

            }
```

- **Voting_system_manager.h**

```
#include <iostream>
#include "System_admin.h"
#include "register_member.h"
using namespace std;

class Voting_System_Manager{
        private :
                int Voter_ID;
                int Candidate_ID;
                float time_stamp;

                System_Admin * admin[5];
                register_mebmber * RM[5];

public :
   Voting_System_Manager();
   Voting_System_Manager(int v_id, int c_id, float ts);
   void send_report();
   void count_votes();
   void save_votes();
   ~Voting_System_Manager();
};
```

- **Voting_system_manager.cpp**

```
#include <iostream>
```

```
#include "voting_system_manager.h"


voting_system_manager::Voting_System_Manager(){
        Voter_ID = 0;
                Candidate_ID = 0;
         time_stamp = 0;
}
voting_system_manager::Voting_System_Manager(int v_id, int c_id, float ts){
        Voter_ID = v_id;
                        Candidate_ID = c_id;
                        time_stamp = ts;
}
void voting_system_manager::send_report(){


}
void voting_system_manager::count_votes(){


}
void voting_system_manager::save_votes(){


}
void voting_system_manager::~Voting_System_Manager(){


}
```

- **System.h**

```
#include <iostream>
#include "voting_system_manager.h"
#include "System_admin.h"
#include "register_member.h"
using namespace std;

class System{
        private :
                Voting_System_Manager * VSM[5];
                System_Admin * admin[5];
                register_mebmber * RM[5];

        public :
          void start_time();
                void end_time();
                void check_validae();
                ~System();
};
```

- **System.cpp**

```
#include <iostream>
#include "system.h"

  void system::start_time(){

  }
```

```
        void system::end_time(){

}
        void system::check_validae(){

}
        void system::~System(){

}
```

- **Feedback.h**

```
#include <iostream>
#include "System_admin.h"
#include "register_member.h"

using namespace std;

class Feedback{
        private :
                int feedbackNo;
        public :
           Feedback()
    Feedback(int fno)
```

```
    void give_feedback()
    void check_feedback()
};
```

- **Feedback.cpp**

```
#include <iostream>
#include <feedback.h>

 feedback::Feedback(){
                    feedbackNo =0;
                    }
 feedback::Feedback(int fno){
                        feedbackNo = fno;
                    }
void feedback::give_feedback(){

                    }
void feedback:: check_feedback(){

                    }
```

- **Winner.h**

```
#include <iostream>
#include "candidate.h"
using namespace std;
```

```
class winner{
  private :
    int C_ID;

            Candidate * candidate[5];
 public :
   void display_result();
}
```

- **Winner.cpp**

```
#include <iostream>
#include "winner.h"

void winner::display_result()
}
```

- **Main.cpp**

```
#include <iostream>
using namespace std;
int main(){



 //register member
 register_member r;
 r.register_mebmber(Thilina,th@1100,1123);
 r.displayDetails();
 r.login();
```

```
//system

system s;

s.start_time();

s.end_time();

s.check_validae();


//system admin

system_admin s;

s.system_admin(Irushi,malshika);

s.login();

s.logout();

s.getvotes();

s.submit();

s.publish_result();



//voting system manager

voting_system_manager v;

v.voting_system_manager(1280,3456,56.87);

v.send_report();

v.count_votes();

v.save_votes();


//unregister member

unregister_member u;
```

```
  u.unregister_member(0775432190,tharushi65@gmail.com,nimesha,456/2,ihala
Biyanvila,Biyanvila.);


  u.register_website();


  //feedback
  feedback f;
   f.feedback(5050);
   f.give_feedback();
   f.check_feedback();




   //winner
  winner w;
   w.winner(2345);
   w.display_result;


  //candidate
  candidate c;
  c.candidate(1122,Sewwandi,sew);
  c.display_candidateDetails();


  r.logout();
  return 0;
}
```