SRM STUDENT ADMISSION MANGEMENT SYSTEM

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ABSTRACT:

Today all the work at the time of admission of the students is done manually by ink and paper. which is very slow and consuming much efforts and time. It is required to Design of a Computerized Automated Student Admission System, to speed up and make it e it easy to use system. Student admissions are a vital part of any university's running because students are what keep a University alive. The student admission is one of the most important activities within a university as one camot survive without students. A poor admissions system can mean lewer students being admitted into a university because of mistakes or an overly slow response time, The process begins with a potential student completing an application form through the Universities and Colleges Admissions Service, the first step for students is to apply directly to the university through a custom online form. This project's aim is to automate the system, pre- checking the inclusion of all required material and automatically ranking each student's application based on a number of criteria. These criteria include the ranking of their university, their grade at said university and their language grade Certificate. The data used by the system is stored in a database that will be the center of all information held about students and the base for the remainder of the process after the initial application has been made. This enables things to be simplified and considerably quickened, making the jobs of the people involved easier. It supports the current process but centralizes it and makes it possible for decisions to be made earlier and easier way.

INTRODUCTION:

Online Admission System is aimed at developing an online admission application for a college. This system is an online system that can be accessed throughout the organization and outside as well with proper login provided. Our system has two type of accessing modes, administrator and user. Student management system is managed by an administrator. It is the job of the administrator to admit and monitor the whole process. When a user log in to the system. He would only view details of the student. He can't perform any changes .The system has two modules. They are

User

Administrator

Students logging is to apply for the course by filling an application form provided by online. College principal/administrator logging in may also access/search information put up by the students.

BRIEF LOOK ON LIBRARY'S USED:

The **fstream** term stands for File Stream. Stream refers to a sequence of characters moving from the disk to the C++ program or from the C+ program to the disk. Moving characters from a file in disk to the program is inputting. Moving characters from the program to a file in the disk is outputting

C++ Strings

Strings are used for storing text.

A string variable contains a collection of characters surrounded by double quotes:

SYSTEM ANALYSIS:

System analysis aims at establishing requests for the system to be acquired, developed and installed. It involves studying and analyzing the ways of an organization currently processing the data to produce information. Analyzing the problem thoroughly forms the vital part of the system study. In system analysis, prevailing situation of problem carefully examined by breaking them into sub problems. Problematic areas are identified and information is collected. Data gathering is essential to any analysis of requests. It is necessary that this analysis familiarizes the designer with objectives, activities and the function of the organization in which the system is to be implemented.

PROJECT DETAILS:

The admission management system will provide a seamless interaction among the students, guardians and university authorities, it facilitates the smooth onboarding of students

Functionalities:

1. **Student End:**

    a Entering details of academic qualifications

    b. Entering details of personal information

    c.Entering details of specific information related to a particular course

    d.Respond to the queries raised by university authors

2. **University End:**

    a Verily student detals

    b. Putting comments to the students

    c.Verity fee information

    d.Ask for more information from student (if required)

CODE:

```
#include <iostream>

#include <fstream>
#include <string>

using namespace std;

class student_end
{
    //int fee;
    public:

    char select;
    string fileName, temp, name, phn;
    double feePaid;
    int q1=0, q2=0, q3=0;
    char student_data[2000];

    void checkQueries()
    {
        if(q1 || q2 || q3)
        {
            if(q1)
                cout<<"Invalid Phone No.! Redirecting to Editing page..."<<en
dl;
            if(q2)
                cout<<"Invalid Name! Redirecting to Editing page..."<<endl;
            if(q3)
                cout<<"Invalid Fee Paid! Redirecting to Editing page..."<<end
l;
            q1=0;
            q2=0;
            q3=0;
            personal_info(2);
            educational_details(2);
        }
        else
            cout<<"No Queries raised so far..."<<endl;
    }
```

```
    void student_end1()
    {
        cout << "\n\tNew Student?\n\tType '1' to fill Admission Form";
        cout << "\n\tAlready part of SRMAP? \n\tType '2' to Verify your data"
;//add query
        cout<<"\n\tType '3' to edit your data";
        cout<<"\n\nEnter your choice : ";
        cin >> select;
        if (select != '1' && select!='2' && select !='3' && select !='4')
        {
            cout<<"Invalid Choice! Please try again.\n";
            cout << "\n\tNew Student? Type '1' to fill Admission Form";
            cout << "\n\tAlready part of SRMAP? Type '2' to Display your data
";//add query
            cout<<"\n\tType '3' to edit your data";
            cout<<"\n\nEnter your choice : ";
            cin>>select;
        }
        if (select == '2')
        {
            cout << "\n\tRedirecting to verification page...\n";
            Get_Student_Data();
        }
        else if(select=='1')
        {
            cout<<"\n\tRedirecting to Admission page...\n";
            Input_Data();
        }
        else
        {
            cout<<"\n\tRedirecting to Editing page...\n";
            //Input_Data();
            personal_info(2);
            educational_details(2);
        }
    }

    void Input_Data()
    {
        getline(cin, temp);
        cout << "....................." << endl;
        cout << "Enter Student Roll : ";
        getline(cin, fileName);
```

```
    ifstream f1(fileName);
    if(f1)
    {
        cout<<"Error! Student Record already exists\n";
        f1.close();
        return;
    }
    //cin>>fileName;
    ofstream wr(fileName);
    cout << "Roll : " << fileName << endl;
    wr.close();
    personal_info(1);
    educational_details(1);
}
void personal_info(int i)
{
    if(i==1)
    {

    ofstream wr(fileName, ios::app);

    cout << "Enter Name of the Student : ";
    //cin.getline(student_data, 2000);

    cin>>name;
    wr << "Name\t\t\t\t: " <<name << endl;
    getline(cin, temp);
    cout << "Enter Father's Name : ";
    cin.getline(student_data, 2000);
    wr << "Father Name\t\t\t: " << student_data << endl;

    cout << "Enter Present Adress : ";
    cin.getline(student_data, 2000);
    wr << "Adress\t\t\t\t: " << student_data << endl;

    cout << "Enter Aadhar number : ";
    cin.getline(student_data, 2000);
    wr << "Adhar number\t\t: " << student_data << endl;

    cout << "Enter Date of Birth : ";
    cin.getline(student_data, 2000);
    wr << "Date of birth\t\t: " << student_data << endl;
```

```
cout << "Enter Contact No. : ";
//cin.getline(student_data, 2000);
cin>>phn;
wr << "Phone\t\t\t\t: " << phn << endl;
getline(cin, temp);
cout << "Enter the religion  : ";
cin.getline(student_data, 2000);
wr << "religion\t\t\t: " << student_data << endl;

cout << "Enter the blood group  : ";
cin.getline(student_data, 2000);
wr << "blood group\t\t\t: " << student_data << endl;
wr.close();
}
else
{
     getline(cin, temp);
    cout << "....................." << endl;
cout << "Enter Student Roll : ";
getline(cin, fileName);

ofstream wr(fileName);

cout << "Enter Name of the Student : ";
//cin.getline(student_data, 2000);

cin>>name;
wr << "Name\t\t\t\t: " <<name << endl;
getline(cin, temp);
cout << "Enter Father's Name : ";
cin.getline(student_data, 2000);
wr << "Father Name\t\t\t: " << student_data << endl;

cout << "Enter Present Adress : ";
cin.getline(student_data, 2000);
wr << "Adress\t\t\t\t: " << student_data << endl;

cout << "Enter Aadhar number : ";
cin.getline(student_data, 2000);
wr << "Adhar number\t\t: " << student_data << endl;

cout << "Enter Date of Birth : ";
cin.getline(student_data, 2000);
```

```
    wr << "Date of birth\t\t: " << student_data << endl;

    cout << "Enter Contact No. : ";
    //cin.getline(student_data, 2000);
    cin>>phn;
    wr << "Phone\t\t\t\t: " << phn << endl;
    getline(cin, temp);
    cout << "Enter the religion  : ";
    cin.getline(student_data, 2000);
    wr << "religion\t\t\t: " << student_data << endl;

    cout << "Enter the blood group  : ";
    cin.getline(student_data, 2000);
    wr << "blood group\t\t\t: " << student_data << endl;
    wr.close();
    }
}
void educational_details(int i)
{
    if(i==1)
    {
    //getline(cin, temp);
    ofstream wr(fileName, ios::app);
    cout << "Enter 10th Class Result(GPA / Marks) = ";
    cin.getline(student_data, 2000);
    wr << "10th Class Result\t: " << student_data << endl;

    cout << "Enter Inter(Class 11 & 12) Marks = ";
    cin.getline(student_data, 2000);
    wr << "Class 11 & 12 Result: " << student_data << endl;

    cout << "Enter email address : ";
    cin.getline(student_data, 2000);
    wr << "Email address\t\t: " << student_data << endl;

    cout << "Enter the admission date : ";
    cin.getline(student_data, 2000);
    wr << "Admission date\t\t: " << student_data << endl;

    cout << "Preferred Department : ";
    cin.getline(student_data, 2000);
    wr << "Preferred Department: " << student_data << endl;
```

```
        cout << "Enter Fees per year: ";
        cin.getline(student_data, 2000);
        wr << "Fees per year\t\t: " << student_data << endl;

        cout<<"Enter fee paid : ";
        cin>>feePaid;
        wr<<"Fee paid\t\t\t: "<<feePaid<<endl;

        cout<<"\n\tThank you for registering! Have a great journey at SRMAP..
."";

        wr.close();
        }
        else
        {
        //getline(cin, temp);
        ofstream wr(fileName, ios::app);

        cout << "Enter 10th Class Result(GPA / Marks) = ";
        cin.getline(student_data, 2000);
        wr << "10th Class Result\t: " << student_data << endl;

        cout << "Enter Inter(Class 11 & 12) Marks = ";
        cin.getline(student_data, 2000);
        wr << "Class 11 & 12 Result: " << student_data << endl;

        cout << "Enter email address : ";
        cin.getline(student_data, 2000);
        wr << "Email address\t\t: " << student_data << endl;

        cout << "Enter the admission date : ";
        cin.getline(student_data, 2000);
        wr << "Admission date\t\t: " << student_data << endl;

        cout << "Preferred Department : ";
        cin.getline(student_data, 2000);
        wr << "Preferred Department: " << student_data << endl;

        cout << "Enter Fees per year: ";
        cin.getline(student_data, 2000);
        wr << "Fees per year\t\t: " << student_data << endl;

        cout<<"Enter fee paid : ";
```

```
        cin>>feePaid;
        wr<<"Fee paid\t\t\t: "<<feePaid<<endl;

        cout<<"\n\tThank you for registering! Have a great journey at SRMAP..
.";

        wr.close();
        }
    }

    void Get_Student_Data()
    {
        string fileName, temp;
        cout << "......................." << endl;
        cout << "Enter Student Roll : ";
        //getline(cin, fileName);
        cin>>fileName;
        ifstream f1(fileName);
        if(!f1)
        {
            cout<<"Error! Student Record not exists\n";
            f1.close();
            return;
        }

        ifstream rd;
        string lines;

        //getline(cin, temp);
        //getline(cin, fileName);

        rd.open(fileName);
        if (rd.is_open())
        {
            while (getline(rd, lines))
            {
                cout << lines << endl;
            }
        }

        rd.close();
    }
};
```

```
class university:public student_end
{
    int id;

    public:
    void univMenu()
    {
        cout<<"\n\tWelcome back Mr. Counselor!\n\t";
        // cout<<"1.To Verify Student Details\n"<<endl;
        // cout<<"Enter your choice : ";
            Get_Student_Data();

    }

    void verify_comment()
    {
        try
        {
            int i;
            for(i=0 ; i<phn.length() ; i++)
            {
                if(isdigit(phn[i])==0)
                    throw 0;
            }
            for(i=0 ; i<name.length() ; i++)
            {
                if(name[i]<'A' || name[i]>'z')
                    throw 'b';
                if(name[i]>'Z' && name[i]<'a')
                    throw 'b';
            }
            if(feePaid<0)
                throw 1.2;
            cout<<"Verification Successful..."<<endl;
            checkQueries();
            return;
        }
        catch(int x)
        {
            q1=1;
            cout<<"Invalid Phone No.!"<<endl;
        }
```

```
        catch(char x)
        {
            q2=1;
            cout<<"Invalid Name!"<<endl;
        }
        catch(double x)
        {
            q3=1;
            cout<<"Invalid Fee Paid!"<<endl;
        }
        cout<<"Verification Incomplete..."<<endl;
        checkQueries();
    }

};

int main()
{
    int ch;
    char opt;
    do
    {
        cout<<"\t=====WELCOME TO SRMAP STUDENT ADMISSION MANAGEMENT SYSTEM=====\n\n";
        cout<<"Are you a Student or Admission Counselor?\n\t1.For Students\n\t2.For University End"<<endl;
        cout<<"Enter your choice : ";
        cin>>ch;
        if(ch!=1 && ch!=2)
        {
            cout<<"Invalid Choice! Please try again.\n";
            cout<<"Are you a Student or Admission Counselor?\n\t1.For Students\n\t2.For University End"<<endl;
            cout<<"\nEnter your choice : ";
            cin>>ch;
        }
        if(ch==1)
        {
            //student_end a1;
            university st1;
            st1.student_end1();
            st1.verify_comment();
        }
```

```
        if(ch==2)
        {
            university b1;
            b1.univMenu();
        }
        cout<<"Type 'y' or 'Y' to continue and any other key to exit\n";
        cout<<"Enter your option : ";
        cin>>opt;
    }while(opt=='y' || opt=='Y');

    return 0;
}
```

OUTPUT:

1. Student End

```
       =====WELCOME TO SRMAP STUDENT ADMISSION MANAGEMENT SYSTEM=====

Are you a Student or Admission Counselor?
       1.For Students
       2.For University End
Enter your choice : 1

       New Student?
       Type '1' to fill Admission Form
       Already part of SRMAP?
       Type '2' to Verify your data
       Type '3' to edit your data

Enter your choice : 1

       Redirecting to Admission page...
.....................
Enter Student Roll : 12345
Roll : 12345
Enter Name of the Student : jones
Enter Father's Name : john
Enter Present Adress : london
Enter Aadhar number : 0000111122223333
Enter Date of Birth : 01012003
Enter Contact No. : 9876543210
Enter the religion  : christian
Enter the blood group  : AB Negative
Enter 10th Class Result(GPA / Marks) = 460
Enter Inter(Class 11 & 12) Marks = 920
Enter email address : john@srmap.edu.in
Enter the admission date : 08082022
```

```
       Type '3' to edit your data

Enter your choice : 1

       Redirecting to Admission page...
.....................
Enter Student Roll : 12345
Roll : 12345
Enter Name of the Student : jones
Enter Father's Name : john
Enter Present Adress : london
Enter Aadhar number : 0000111122223333
Enter Date of Birth : 01012003
Enter Contact No. : 9876543210
Enter the religion  : christian
Enter the blood group  : AB Negative
Enter 10th Class Result(GPA / Marks) = 460
Enter Inter(Class 11 & 12) Marks = 920
Enter email address : john@srmap.edu.in
Enter the admission date : 08082022
Preferred Department : cse
Enter Fees per year: 300000
Enter fee paid : 300000

       Thank you for registering! Have a great journey at SRMAP...Verification Successful...
No Queries raised so far...
Type 'y' or 'Y' to continue and any other key to exit
Enter your option :

...Program finished with exit code 9
Press ENTER to exit console.
```

```
Name                : jones
Father Name         : john
Adress              : london
Adhar number        : 0000111122223333
Date of birth       : 01012003
Phone               : 9876543210
religion            : christian
blood group         : AB Negative
10th Class Result   : 460
Class 11 & 12 Result: 920
Email address       : john@srmap.edu.in
Admission date      : 08082022
Preferred Department: cse
Fees per year       : 300000
Fee paid            : 300000
```

If you want we can edit the details by entering type 3

2.FOR UNIVERSITY END:

```
        =====WELCOME TO SRMAP STUDENT ADMISSION MANAGEMENT SYSTEM=====

Are you a Student or Admission Counselor?
        1.For Students
        2.For University End
Enter your choice : 2

        Welcome back Mr. Counselor!
        ..........................
Enter Student Roll : 12345
Name                            : jones
Father Name                     : john
Adress                          : london
Adhar number            : 0000111122223333
Date of birth           : 01012003
Phone                           : 9876543210
religion                        : christian
blood group                     : AB Negative
10th Class Result       : 460
Class 11 & 12 Result: 920
Email address           : john@srmap.edu.in
Admission date          : 08082022
Preferred Department: cse
Fees per year           : 300000
Fee paid                        : 300000
Type 'y' or 'Y' to continue and any other key to exit
Enter your option :
```

CONCLUSION:

The prototype which was developed that is very helpful to the admission department as well as the perspective students. This Online Admission System will bring the enhanced interaction between them.

FUTURE ENHANCEMENT:

There is one segment named lab unit needed computer system to improve work. In this system, we tried to make a simple application for user. We can change our system day by day as per user requirements will be changed. In future, we want to implement below point in our system.

- We can generate student attendance report.
- We can generate graphical report of student's result.

REFERENCES:

[1]W3 schools
[2] Greeks for Greeks
[3] Course lectures by Elakkiya Mam