

SRM STUDENT ADMISSION MANAGEMENT SYSTEM



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What is admission management system??

The admission management system is software that enables educational institutions to conduct student admission and enrollment procedures online. The admission management system manages student admission form collection, collects documents, and shortlists candidates to complete the admission process online.

Brief look on library 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:

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:

i. 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. Verify student details
- b. Putting comments to the students
- c. Verify fee information
- d. Ask for more information from student (if required)

Code:

Programiz C++ Online Compiler

Interactive C++ Course

main.cpp

Run

Output

Clear

```
1 // Online C++ compiler to run C++ program online
2 #include <iostream>
3 #include <fstream>
4 #include <string>
5
6 using namespace std;
7
8 class student_end
9 {
10     //int fee;
11     public:
12
13     char select;
14     string fileName, temp, name, phn;
15     double feePaid;
16     int q1=0, q2=0, q3=0;
17     char student_data[2000];
18
19     void checkQueries()
20     {
21         if(q1 || q2 || q3)
22         {
23             if(q1)
24                 cout<<"Invalid Phone No.! Redirecting to Editing page..."<<endl;
25             if(q2)
26                 cout<<"Invalid Name! Redirecting to Editing page..."<<endl;
27             if(q3)
28                 cout<<"Invalid Fee Paid! Redirecting to Editing page..."<<endl;
29             q1=0;
30             q2=0;
31             q3=0;
32             personal info(2);
```


main.cpp



Run

Output

Clear

```
33     educational_details(2);
34 }
35 else
36     cout<<"No Queries raised so far..."<<endl;
37 }
38 void student_end1()
39 {
40     cout << "\n\nNew Student? \n\nType '1' to fill Admission Form";
41     cout << "\n\nAlready part of SRMAP? \n\nType '2' to Verify your data";//add query
42     cout<<"\n\nType '3' to edit your data";
43     cout<<"\n\nEnter your choice : ";
44     cin >> select;
45     if (select != '1' && select!='2' && select !='3' && select !='4')
46     {
47         cout<<"Invalid Choice! Please try again.\n";
48         cout << "\n\nNew Student? Type '1' to fill Admission Form";
49         cout << "\n\nAlready part of SRMAP? Type '2' to Display your data";//add query
50         cout<<"\n\nType '3' to edit your data";
51         cout<<"\n\nEnter your choice : ";
52         cin>>select;
53     }
54     if (select == '2')
55     {
56         cout << "\n\nRedirecting to verification page...\n";
57         Get_Student_Data();
58     }
59     else if(select=='1')
60     {
61         cout<<"\n\nRedirecting to Admission page...\n";
62         Input_Data();
63     }
64     else
```


main.cpp



Run

Output

Clear

```
64     else
65     {
66         cout<<"\n\tRedirecting to Editing page...\n";
67         //Input_Data();
68         personal_info(2);
69         educational_details(2);
70     }
71 }
72
73 void Input_Data()
74 {
75     getline(cin, temp);
76     cout << "....." << endl;
77     cout << "Enter Student Roll : ";
78     getline(cin, fileName);
79     ifstream f1(fileName);
80     if(f1)
81     {
82         cout<<"Error! Student Record already exists\n";
83         f1.close();
84         return;
85     }
86     //cin>>fileName;
87     ofstream wr(fileName);
88     cout << "Roll : " << fileName << endl;
89     wr.close();
90     personal_info(1);
91     educational_details(1);
92 }
93 void personal_info(int i)
94 {
95     if(i==1)
```

main.cpp



Run

Output

Clear

```
95     if(i==1)
96     {
97
98         ofstream wr(fileName, ios::app);
99
100        cout << "Enter Name of the Student : ";
101        //cin.getline(student_data, 2000);
102
103        cin>>name;
104        wr << "Name\t\t\t\t: " <<name << endl;
105        getline(cin, temp);
106        cout << "Enter Father's Name : ";
107        cin.getline(student_data, 2000);
108        wr << "Father Name\t\t\t\t: " << student_data << endl;
109
110        cout << "Enter Present Adress : ";
111        cin.getline(student_data, 2000);
112        wr << "Adress\t\t\t\t\t: " << student_data << endl;
113
114        cout << "Enter Aadhar number : ";
115        cin.getline(student_data, 2000);
116        wr << "Adhar number\t\t\t: " << student_data << endl;
117
118        cout << "Enter Date of Birth : ";
119        cin.getline(student_data, 2000);
120        wr << "Date of birth\t\t\t: " << student_data << endl;
121
122        cout << "Enter Contact No. : ";
123        //cin.getline(student_data, 2000);
124        cin>>phn;
125        wr << "Phone\t\t\t\t\t\t: " << phn << endl;
126        getline(cin, temp);
```

main.cpp



Run

Output

Clear

```
127     cout << "Enter the religion : ";
128     cin.getline(student_data, 2000);
129     wr << "religion\\t\\t\\t: " << student_data << endl;
130
131     cout << "Enter the blood group : ";
132     cin.getline(student_data, 2000);
133     wr << "blood group\\t\\t\\t: " << student_data << endl;
134     wr.close();
135 }
136 else
137 {
138     getline(cin, temp);
139     cout << "....." << endl;
140     cout << "Enter Student Roll : ";
141     getline(cin, fileName);
142
143     ofstream wr(fileName);
144
145     cout << "Enter Name of the Student : ";
146     //cin.getline(student_data, 2000);
147
148     cin>>name;
149     wr << "Name\\t\\t\\t\\t: " <<name << endl;
150     getline(cin, temp);
151     cout << "Enter Father's Name : ";
152     cin.getline(student_data, 2000);
153     wr << "Father Name\\t\\t\\t: " << student_data << endl;
154
155     cout << "Enter Present Adress : ";
156     cin.getline(student_data, 2000);
157     wr << "Adress\\t\\t\\t\\t: " << student_data << endl;
158
```

main.cpp



Run

Output

Clear

```
157 wr << "Adress\\t\\t\\t\\t: " << student_data << endl;
158
159 cout << "Enter Aadhar number : ";
160 cin.getline(student_data, 2000);
161 wr << "Adhar number\\t\\t: " << student_data << endl;
162
163 cout << "Enter Date of Birth : ";
164 cin.getline(student_data, 2000);
165 wr << "Date of birth\\t\\t: " << student_data << endl;
166
167 cout << "Enter Contact No. : ";
168 //cin.getline(student_data, 2000);
169 cin>>phn;
170 wr << "Phone\\t\\t\\t\\t: " << phn << endl;
171 getline(cin, temp);
172 cout << "Enter the religion : ";
173 cin.getline(student_data, 2000);
174 wr << "religion\\t\\t\\t: " << student_data << endl;
175
176 cout << "Enter the blood group : ";
177 cin.getline(student_data, 2000);
178 wr << "blood group\\t\\t\\t: " << student_data << endl;
179 wr.close();
180 }
181 }
182 void educational_details(int i)
183 {
184     if(i==1)
185     {
186         //getline(cin, temp);
187         ofstream wr(fileName, ios::app);
188         cout << "Enter 10th Class Result(GPA / Marks) = ";
```

main.cpp



Output

Clear

```
187 ofstream wr(fileName, ios::app);
188 cout << "Enter 10th Class Result(GPA / Marks) = ";
189 cin.getline(student_data, 2000);
190 wr << "10th Class Result\t: " << student_data << endl;
191
192 cout << "Enter Inter(Class 11 & 12) Marks = ";
193 cin.getline(student_data, 2000);
194 wr << "Class 11 & 12 Result: " << student_data << endl;
195
196 cout << "Enter email address : ";
197 cin.getline(student_data, 2000);
198 wr << "Email address\t\t: " << student_data << endl;
199
200 cout << "Enter the admission date : ";
201 cin.getline(student_data, 2000);
202 wr << "Admission date\t\t: " << student_data << endl;
203
204 cout << "Preferred Department : ";
205 cin.getline(student_data, 2000);
206 wr << "Preferred Department: " << student_data << endl;
207
208 cout << "Enter Fees per year: ";
209 cin.getline(student_data, 2000);
210 wr << "Fees per year\t\t: " << student_data << endl;
211
212 cout<<"Enter fee paid : ";
213 cin>>feePaid;
214 wr<<"Fee paid\t\t\t: "<<feePaid<<endl;
215
216 cout<<"\n\tThank you for registering! Have a great journey at SRMAP...";
217
218 wr.close();
```

main.cpp



Run

Output

Clear

```
219     }
220     else
221     {
222         //getline(cin, temp);
223         ofstream wr(fileName, ios::app);
224
225         cout << "Enter 10th Class Result(GPA / Marks) = ";
226         cin.getline(student_data, 2000);
227         wr << "10th Class Result\t: " << student_data << endl;
228
229         cout << "Enter Inter(Class 11 & 12) Marks = ";
230         cin.getline(student_data, 2000);
231         wr << "Class 11 & 12 Result: " << student_data << endl;
232
233         cout << "Enter email address : ";
234         cin.getline(student_data, 2000);
235         wr << "Email address\t\t: " << student_data << endl;
236
237         cout << "Enter the admission date : ";
238         cin.getline(student_data, 2000);
239         wr << "Admission date\t\t\t: " << student_data << endl;
240
241         cout << "Preferred Department : ";
242         cin.getline(student_data, 2000);
243         wr << "Preferred Department: " << student_data << endl;
244
245         cout << "Enter Fees per year: ";
246         cin.getline(student_data, 2000);
247         wr << "Fees per year\t\t: " << student_data << endl;
248
249         cout<<"Enter fee paid : ";
250         cin>>feePaid;
```

main.cpp



Run

Output

Clear

```
251     wr<<"Fee paid\t\t\t: "<<feePaid<<endl;
252
253     cout<<"\n\tThank you for registering! Have a great journey at SRMAP...";
254
255     wr.close();
256 }
257 }
258
259 void Get_Student_Data()
260 {
261     string fileName, temp;
262     cout << "....." << endl;
263     cout << "Enter Student Roll : ";
264     //getline(cin, fileName);
265     cin>>fileName;
266     ifstream f1(fileName);
267     if(!f1)
268     {
269         cout<<"Error! Student Record not exists\n";
270         f1.close();
271         return;
272     }
273
274     ifstream rd;
275     string lines;
276
277     //getline(cin, temp);
278     //getline(cin, fileName);
279
280     rd.open(fileName);
281     if (rd.is_open())
282     {
```


main.cpp

282

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```
{
    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++)
            {
```

Run

Output

Clear

main.cpp



Run

Output

Clear

```
312     for(i=0 ; i<phn.length() ; i++)
313     {
314         if(isdigit(phn[i])==0)
315             throw 0;
316     }
317     for(i=0 ; i<name.length() ; i++)
318     {
319         if(name[i]<'A' || name[i]>'Z')
320             throw 'b';
321         if(name[i]>'Z' && name[i]<'a')
322             throw 'b';
323     }
324     if(feePaid<0)
325         throw 1.2;
326     cout<<"Verification Successful..."<<endl;
327     checkQueries();
328     return;
329 }
330 catch(int x)
331 {
332     q1=1;
333     cout<<"Invalid Phone No.!"<<endl;
334 }
335 catch(char x)
336 {
337     q2=1;
338     cout<<"Invalid Name!"<<endl;
339 }
340 catch(double x)
341 {
342     q3=1;
343     cout<<"Invalid Fee Paid!"<<endl;
```

main.cpp



Run

Output

Clear

```
343     cout<<"Invalid Fee Paid!"<<endl;
344 }
345 cout<<"Verification Incomplete..."<<endl;
346 checkQueries();
347 }
348
349 };
350
351 int main()
352 {
353     int ch;
354     char opt;
355     do
356     {
357         cout<<"\t====WELCOME TO SRMAP STUDENT ADMISSION MANAGEMENT SYSTEM====\n\n";
358         cout<<"Are you a Student or Admission Counselor?\n\t1.For Students\n\t2.For University End"
359             <<endl;
360         cout<<"Enter your choice : ";
361         cin>>ch;
362         if(ch!=1 && ch!=2)
363         {
364             cout<<"Invalid Choice! Please try again.\n";
365             cout<<"Are you a Student or Admission Counselor?\n\t1.For Students\n\t2.For University
366                 End"<<endl;
367             cout<<"\nEnter your choice : ";
368             cin>>ch;
369         }
370         if(ch==1)
371         {
372             //student_end a1;
373             university st1;
374             st1.student_end1();
```

```
369 {
370     //student_end a1;
371     university st1;
372     st1.student_end1();
373     st1.verify_comment();
374 }
375 if(ch==2)
376 {
377     university b1;
378     b1.univMenu();
379 }
380 cout<<"Type 'y' or 'Y' to continue and any other key to exit\n";
381 cout<<"Enter your option : ";
382 cin>>opt;
383 }while(opt=='y' || opt=='Y');
384
385 return 0;
386 }
```

Output

I.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 Address : 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 Address : 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.

```
1 Name : jones
2 Father Name : john
3 Adress : london
4 Adhar number : 0000111122223333
5 Date of birth : 01012003
6 Phone : 9876543210
7 religion : christian
8 blood group : AB Negative
9 10th Class Result : 460
10 Class 11 & 12 Result: 920
11 Email address : john@srmap.edu.in
12 Admission date : 08082022
13 Preferred Department: cse
14 Fees per year : 300000
15 Fee paid : 300000
16
```

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.

References:

[1] W₃ school s

[2] Greeks for Greeks

[3] Course leatures by Elakkiya Mam

A decorative graphic in the bottom-left corner consisting of two parallel diagonal lines, one dark grey and one lime green, meeting at a point.

thank you