



### **MINI PROJEJT**

(Based on MCA)

## STUDENT MANAGEMENT SYSTEM

Submitted

By

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**MASTER OF COMPUTER APPLICATION** 

2<sup>nd</sup> SEM

**Under the Guidance of** 

Faculty of Chandigarh University







#### STUDENT DECLARATION:-

This is to certify that this report represents the original work

Done RANA BIKRAM SINGH during this project submission as a

partial fulfilment of the requirement for the System Design

Project of Masters of computer Application , II Semester , from

Chandigarh University.

DATE- 27/06/2022

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MAC (C & DEVOPS)

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Chandigarh University

#### 1. TITLE OF THE PROJECT:

# Student Management System

#### 2. OBJECTIVE OF THE PROJECT:

- Student Management System is software which is helpful for college as well as the school authorities. In
- the current system all the activities are done manually.
- It is very time consuming and costly.



- Our Student Management System deals with the various activities
- related to managing student records. This main objective of the system is to computerize the maintenance of the student details. It also includes the details about the student 's.

#### 3. PROJECT CATEGORY:

RDBMS(database)

#### 4. LANGUAGE AND SOFTWARE TOOL USED:

Front End: C++

Operating System: Windows 10

#### 5. STRUCTURE OF THE PROJECT:

(A) Proposed System:

In the proposed system, the administrator can insert, delete(particular data or all), search and modify the student records as per the requirements. This project will help to smoother the process of the School.

#### 6. FUTURE SCOPE OF THE PROJECT

This project will enhance the student and the school to serve more quickly and efficientl. This software is developed in order to computerize the activities which take more time, if done manuall. faster and can get information quickly. If we want any information about students, we can access it quickly.



#### **HARDWARE REQUIREMENT:-**

OS - Windows

Hard Disk - 80 GB

RAM - 1 GB

#### Source Code:-

```
#include <iostream>
#include <cstring>

using namespace std;

string arr1[20], arr2[20], arr3[20], arr4[20],
arr5[20];
int total = 0;

void enter()
{

   int choice;
   cout << "How many student's you want to Add:=";
   cin >> choice;
   if (total == 0)
   {
      total = total + choice;
}
```

```
for (int i = 0; i < choice; i++)</pre>
              cout << "\n Enter the student data:=" << i</pre>
+ 1 << endl
                   << endl;
              cout << "Enter name: ";</pre>
              cin >> arr1[i];
              cout << "Enter rollno: ";</pre>
              cin >> arr2[i];
              cout << "Enter course: ";</pre>
              cin >> arr3[i];
              cout << "Enter class: ";</pre>
              cin >> arr4[i];
              cout << "Enter contact no: ";</pre>
              cin >> arr5[i];
         }
    }
    else
    {
         for (int i = total; i < total + choice; i++)</pre>
              cout << "\n Enter the student data:=" << i</pre>
+ 1 << endl
                   << endl;
              cout << "Enter name: ";</pre>
              cin >> arr1[i];
              cout << "Enter rollno: ";</pre>
              cin >> arr2[i];
              cout << "Enter course: ";</pre>
              cin >> arr3[i];
              cout << "Enter class: ";</pre>
              cin >> arr4[i];
```

```
cout << "Enter contact no: ";</pre>
             cin >> arr5[i];
         total = total + choice;
    }
}
void show()
    if (total == 0)
         cout << " no data is avialable right now</pre>
please before inter data:" << endl;</pre>
    }
    else
    {
         for (int i = 0; i < total; i++)
         {
             cout << endl</pre>
                   << "Your save student's data is:=" <<
i + 1 << endl
                   << endl;
             cout << " name: " << arr1[i] << endl;</pre>
             cout << " rollno: " << arr2[i] << endl;</pre>
             cout << "Enter course: " << arr3[i] <<</pre>
end1;
             cout << "Enter class: " << arr4[i] <<</pre>
end1;
```

```
cout << "Enter contact no: " << arr5[i] <<</pre>
end1;
    }
}
void search()
    if (total == 0)
    {
         cout << " no data is avialable right now</pre>
please before inter data:" << endl;</pre>
    else
    {
         string rollno;
         cout << " Enter the rollno which you want</pre>
search:=";
         cin >> rollno;
         for (int i = 0; i < total; i++)</pre>
         {
             if (rollno == arr2[i])
                  cout << endl</pre>
                        << "Your Searching data is:=" <<
i + 1 << endl
                       << endl;
                  cout << " name: " << arr1[i] << endl;</pre>
                  cout << " rollno: " << arr2[i] <<</pre>
end1;
```

```
cout << "Enter course: " << arr3[i] <<</pre>
endl;
                 cout << "Enter class: " << arr4[i] <<</pre>
endl;
                  cout << "Enter contact no: " <<</pre>
arr5[i] << endl;</pre>
             }
    }
void update()
    if (total == 0)
    {
        cout << " no data is interd:" << endl;</pre>
    else
    {
         string rollno;
         cout << " Enter the rollno which you want</pre>
update:=";
         cin >> rollno;
         for (int i = 0; i < total; i++)
         {
             if (rollno == arr2[i])
             {
                  cout << endl</pre>
                       << "Previous student data is:-"
<< i + 1 << endl
                       << endl;
                 cout << " name: " << arr1[i] << endl;</pre>
```

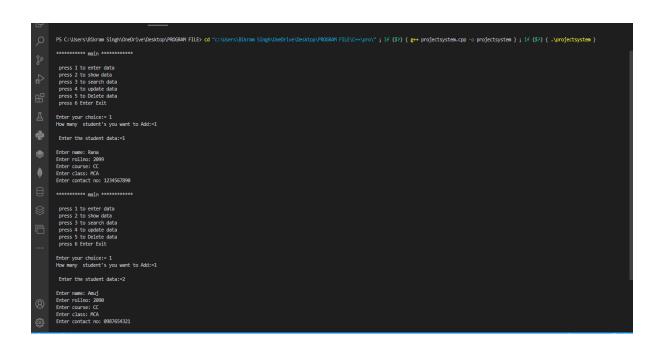
```
cout << " rollno: " << arr2[i] <<</pre>
end1;
                  cout << "Enter course: " << arr3[i] <<</pre>
endl;
                  cout << "Enter class: " << arr4[i] <<</pre>
end1;
                  cout << "Enter contact no: " <<</pre>
arr5[i] << endl
                       << endl;
                  cout << "Enter the new
Data....!:=" << endl
                       << end1;
                  cout << "Enter name: ";</pre>
                  cin >> arr1[i];
                  cout << "Enter rollno: ";</pre>
                  cin >> arr2[i];
                  cout << "Enter course: ";</pre>
                  cin >> arr3[i];
                  cout << "Enter class: ";</pre>
                  cin >> arr4[i];
                  cout << "Enter contact no: ";</pre>
                  cin >> arr5[i];
             }
        }
    }
}
void deletedata()
```

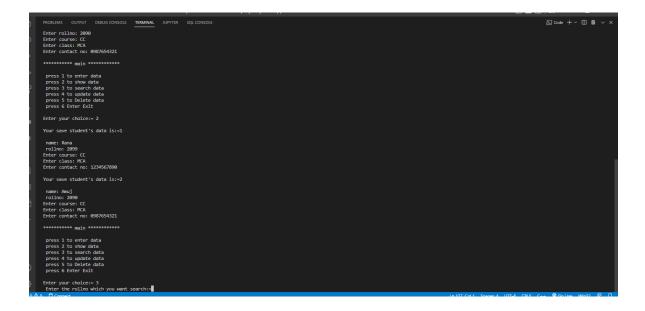
```
if (total == 0)
    {
         cout << " no data is interd:" << endl;</pre>
    }
    else
    {
         int a;
         cout << "press 2 to 9 , no data delete :" <<</pre>
end1;
        cout << "press 1 to delete particular</pre>
record:" << endl;</pre>
         cout << " Enter your choice delete:= ";</pre>
        cin >> a;
         if (a != 1)
         {
             cout << " please enter write click for</pre>
delete:" << endl;</pre>
         else if (a == 1)
             string rollno;
             cout << " Enter the rollno which you want</pre>
to delete:=";
             cin >> rollno;
             for (int i = 0; i < total; i++)
             {
                  if (rollno == arr2[i])
                  {
                      for (int j = 1; j < total; j++)
                           arr1[j] = arr1[j + 1];
```

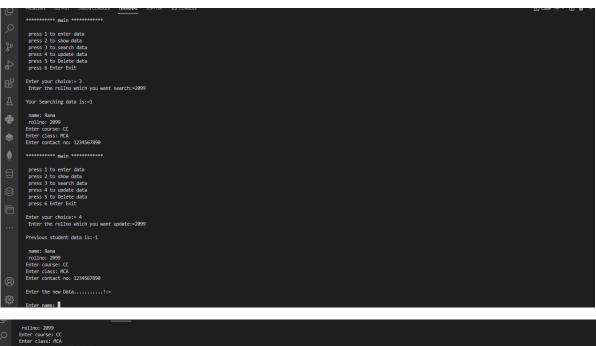
```
arr2[j] = arr2[j + 1];
                          arr3[j] = arr3[j + 1];
                          arr4[j] = arr4[j + 1];
                          arr5[j] = arr5[j + 1];
                      }
                      total--;
                      cout << "your regired record is</pre>
delete....!";
                 }
    }
int main()
    int value;
    while (true)
    {
         cout << endl</pre>
              << "******** main ******** <<
end1;
        cout << "\n press 1 to enter data" << endl;</pre>
        cout << " press 2 to show data" << endl;</pre>
        cout << " press 3 to search data" << endl;</pre>
        cout << " press 4 to update data" << endl;</pre>
         cout << " press 5 to Delete data" << endl;</pre>
        cout << " press 6 Enter Exit " << endl</pre>
              << endl;
         cout << "Enter your choice:= ";</pre>
        cin >> value;
         switch (value)
         case 1:
```

```
enter();
        break;
    case 2:
        show();
        break;
    case 3:
        search();
        break;
    case 4:
        update();
        break;
    case 5:
        deletedata();
        break;
    case 6:
        exit(0);
        break;
    default:
        cout << "Invalid input";</pre>
        break;
}
```

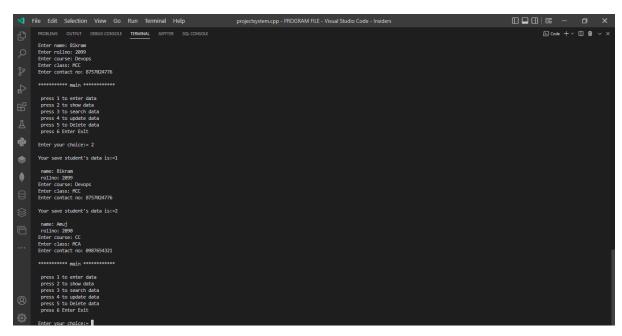
**OUTPUT OF OUR PROJECT:-**



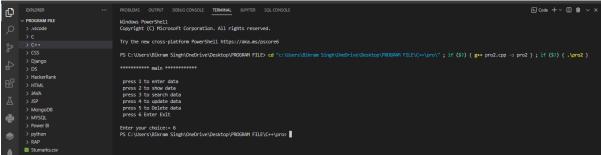












# Task Done: