MINI PROJEJT

(Based on MCA)

STUDENT MANAGEMENT SYSTEM

Submitted

By

Rana Bikram Singh

MASTER OF COMPUTER APPLICATION

2nd SEM

Under the Guidance of

Faculty of 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:-

```cpp
#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;
```

```cpp
        for (int i = 0; i < choice; i++)
        {
            cout << "\n Enter the student data:=" << i
+ 1 << endl
                << endl;

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

            cout << "Enter name: ";
            cin >> arr1[i];
            cout << "Enter rollno: ";
            cin >> arr2[i];
            cout << "Enter course: ";
            cin >> arr3[i];
            cout << "Enter class: ";
            cin >> arr4[i];
```

```cpp
            cout << "Enter contact no: ";
            cin >> arr5[i];
        }
        total = total + choice;
    }
}

void show()
{
    if (total == 0)
    {
        cout << " no data is avialable right now
please before inter data:" << endl;
    }
    else
    {
        for (int i = 0; i < total; i++)
        {
            cout << endl
                << "Your save student's data is:=" <<
i + 1 << endl
                << endl;

            cout << " name: " << arr1[i] << endl;

            cout << " rollno: " << arr2[i] << endl;

            cout << "Enter course: " << arr3[i] <<
endl;

            cout << "Enter class: " << arr4[i] <<
endl;
```

```cpp
            cout << "Enter contact no: " << arr5[i] <<
endl;
        }
    }
}

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

                cout << " name: " << arr1[i] << endl;

                cout << " rollno: " << arr2[i] <<
endl;
```

```cpp
                cout << "Enter course: " << arr3[i] <<
endl;

                cout << "Enter class: " << arr4[i] <<
endl;

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

                cout << " name: " << arr1[i] << endl;
```

```cpp
            cout << " rollno: " << arr2[i] <<
endl;

            cout << "Enter course: " << arr3[i] <<
endl;

            cout << "Enter class: " << arr4[i] <<
endl;

            cout << "Enter contact no: " <<
arr5[i] << endl
                << endl;

            cout << "Enter the new
Data............!:=" << endl
                << endl;

            cout << "Enter name: ";
            cin >> arr1[i];
            cout << "Enter rollno: ";
            cin >> arr2[i];
            cout << "Enter course: ";
            cin >> arr3[i];
            cout << "Enter class: ";
            cin >> arr4[i];
            cout << "Enter contact no: ";
            cin >> arr5[i];
        }
    }
  }
}

void deletedata()
```

```cpp
{
    if (total == 0)
    {
        cout << " no data is interd:" << endl;
    }
    else
    {
        int a;
        cout << "press 2 to 9 , no data delete :" << endl;
        cout << "press 1 to delete  particular record:" << endl;
        cout << " Enter your choice delete:= ";

        cin >> a;
        if (a != 1)
        {

            cout << " please enter write click for delete:" << endl;
        }
        else if (a == 1)
        {
            string rollno;
            cout << " Enter the rollno which you want 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];
```

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

        cin >> value;
        switch (value)
        {
        case 1:
```

```cpp
                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";
                break;
        }
    }
}
```

OUTPUT OF OUR PROJECT:-

```
PS C:\Users\Bikram Singh\OneDrive\Desktop\PROGRAM FILE> cd "c:\Users\Bikram Singh\OneDrive\Desktop\PROGRAM FILE\C++\pro\" ; if ($?) { g++ projectsystem.cpp -o projectsystem } ; if ($?) { .\projectsystem }

*********** main ************

 press 1 to enter data
 press 2 to show data
 press 3 to search data
 press 4 to update data
 press 5 to Delete data
 press 6 Enter Exit

Enter your choice:= 1
How many  student's you want to Add:=1

 Enter the student data:=1

Enter name: Rana
Enter rollno: 2099
Enter course: CC
Enter class: MCA
Enter contact no: 1234567890

*********** main ************

 press 1 to enter data
 press 2 to show data
 press 3 to search data
 press 4 to update data
 press 5 to Delete data
 press 6 Enter Exit

Enter your choice:= 1
How many  student's you want to Add:=1

 Enter the student data:=2

Enter name: Amuj
Enter rollno: 2090
Enter course: CC
Enter class: MCA
Enter contact no: 0987654321
```

```
PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   JUPYTER   SQL CONSOLE

Enter rollno: 2090
Enter course: CC
Enter class: MCA
Enter contact no: 0987654321

*********** main ************

 press 1 to enter data
 press 2 to show data
 press 3 to search data
 press 4 to update data
 press 5 to Delete data
 press 6 Enter Exit

Enter your choice:= 2

Your save student's data is:=1

 name: Rana
 rollno: 2099
Enter course: CC
Enter class: MCA
Enter contact no: 1234567890

Your save student's data is:=2

 name: Amuj
 rollno: 2090
Enter course: CC
Enter class: MCA
Enter contact no: 0987654321

*********** main ************

 press 1 to enter data
 press 2 to show data
 press 3 to search data
 press 4 to update data
 press 5 to Delete data
 press 6 Enter Exit

Enter your choice:= 3
 Enter the rollno which you want search:=
```

```
*********** main ************

  press 1 to enter data
  press 2 to show data
  press 3 to search data
  press 4 to update data
  press 5 to Delete data
  press 6 Enter Exit

Enter your choice:= 3
  Enter the rollno which you want search:=2099

Your Searching data is:=1

  name: Rana
  rollno: 2099
Enter course: CC
Enter class: MCA
Enter contact no: 1234567890

*********** main ************

  press 1 to enter data
  press 2 to show data
  press 3 to search data
  press 4 to update data
  press 5 to Delete data
  press 6 Enter Exit

Enter your choice:= 4
  Enter the rollno which you want update:=2099

  Previous student data is:-1

  name: Rana
  rollno: 2099
Enter course: CC
Enter class: MCA
Enter contact no: 1234567890

  Enter the new Data...........!:=

  Enter name:
```

```
  rollno: 2099
Enter course: CC
Enter class: MCA
Enter contact no: 1234567890

*********** main ************

  press 1 to enter data
  press 2 to show data
  press 3 to search data
  press 4 to update data
  press 5 to Delete data
  press 6 Enter Exit

Enter your choice:= 4
  Enter the rollno which you want update:=2099

Previous student data is:-1

  name: Rana
  rollno: 2099
Enter course: CC
Enter class: MCA
Enter contact no: 1234567890

Enter the new Data...........!:=

Enter name: Bikram
Enter rollno: 2099
Enter course: Devops
Enter class: MCC
Enter contact no: 8757024776

*********** main ************

  press 1 to enter data
  press 2 to show data
  press 3 to search data
  press 4 to update data
  press 5 to Delete data
  press 6 Enter Exit

Enter your choice:=
```

```
Enter name: Bikram
Enter rollno: 2099
Enter course: Devops
Enter class: MCC
Enter contact no: 8757024776

*********** main ************

  press 1 to enter data
  press 2 to show data
  press 3 to search data
  press 4 to update data
  press 5 to Delete data
  press 6 Enter Exit

Enter your choice:= 2

Your save student's data is:=1

  name: Bikram
  rollno: 2099
Enter course: Devops
Enter class: MCC
Enter contact no: 8757024776

Your save student's data is:=2

  name: Amuj
  rollno: 2090
Enter course: CC
Enter class: MCA
Enter contact no: 0987654321

*********** main ************

  press 1 to enter data
  press 2 to show data
  press 3 to search data
  press 4 to update data
  press 5 to Delete data
  press 6 Enter Exit

Enter your choice:=
```

```
press 1 to enter data
press 2 to show data
press 3 to search data
press 4 to update data
press 5 to Delete data
press 6 Enter Exit

Enter your choice:= 5
press 1 to delete  full record:
press 2 to delete  particular record:
 Enter your choice delete:= 2
 Enter the rollno which you want delete:=2090
your reqired record is delete....!
*********** main ************

 press 1 to enter data
 press 2 to show data
 press 3 to search data
 press 4 to update data
 press 5 to Delete data
 press 6 Enter Exit

Enter your choice:= 2

Your save student's data is:=1

 name: Bikram
 rollno: 2099
Enter course: Devops
Enter class: MCC
Enter contact no: 8757024776

*********** main ************

 press 1 to enter data
 press 2 to show data
 press 3 to search data
 press 4 to update data
 press 5 to Delete data
 press 6 Enter Exit
```

```
PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL    JUPYTER    SQL CONSOLE

Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\Bikram Singh\OneDrive\Desktop\PROGRAM FILE> cd "c:\Users\Bikram Singh\OneDrive\Desktop\PROGRAM FILE\C++\pro\" ; if ($?) { g++ pro2.cpp -o pro2 } ; if ($?) { .\pro2 }

*********** main ************

 press 1 to enter data
 press 2 to show data
 press 3 to search data
 press 4 to update data
 press 5 to Delete data
 press 6 Enter Exit

Enter your choice:= 6
PS C:\Users\Bikram Singh\OneDrive\Desktop\PROGRAM FILE\C++\pro>
```

EXPLORER

PROGRAM FILE
> .vscode
> C
> C++
> CSS
> Django
> DS
> HackerRank
> HTML
> JAVA
> JSP
> MongoDB
> MYSQL
> Power BI
> python
> RAP
Stumarks.csv

Task Done: