

# **MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR**

(A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV, Bhopal)



## **Skills Based Mini Project Report On**

## **Student Management System**

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# **MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR**

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## **CERTIFICATE**

This is certified that **Anshu Singh** (0901CA211010) has submitted the project report titled **Student Management System** under the mentorship of **Dr. Anshu Chaturvedi** (Professor) as the skills based mini project in 1<sup>st</sup> year of Master of Computer Application in Computer Science and Engineering from Madhav Institute of Technology and Science, Gwalior.



**Dr. Anshu Chaturvedi**

( Professor)

Computer Science and Engineering

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## **DECLARATION**

I hereby declare that the work being presented in this project report, for the partial fulfilment of requirement for the skills based mini project in 1<sup>st</sup> year of Master of Computer Application in Computer Science and Engineering at Madhav Institute of Technology & Science, Gwalior is an authenticated and original record of my work under the mentorship of **Dr. Anshu Chaturvedi** (Professor), MITS Gwalior.

I declare that I have not submitted the matter embodied in this report anywhere else.



Anshu Singh

( 0901CA211010 )

1st Year,

Master of Computer Application,

Computer Science and Engineering

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## **ACKNOWLEDGEMENT**

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I would sincerely like to thank my department, **Department of Computer Science and Engineering**, for allowing me to explore this project. I humbly thank **Dr. Manish Dixit**, Professor and Head, Department of Computer Science and Engineering, for his continued support during the course of this engagement, which eased the process and formalities involved.

I am sincerely thankful to my faculty coordinator. I am grateful to the guidance of **Dr. Anshu Chaturvedi**, Professor, Computer Science and Engineering, for her continued support and guidance throughout the project. I am also very thankful to the faculty and staff of the department.



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1st Year,

Master of Computer Application,  
Computer Science and Engineering

## **ABSTRACT**

Student Management System is helpful for students 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 the students. In the we can register as a user and user has of two types, student and administrator. Administrator has the power to add new user and can edit and delete a user. A student can register as user and can add edit and delete his profile. The administrator can add edit and delete marks for the student. All the users can see the marks.

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## **1. Introduction**

Schools and Universities are the foundation of knowledge and an educational body on which students rely upon. Therefore, they need to maintain a proper database of its students to keep all the updated records and easily share information with students. Most schools and Universities count on an advanced software tool to keep all their student records and administrative operations including, examinations, attendance, and other activities.

Over the recent years, the performance and efficiency of the education industry have been enhanced by using the Student Management System. This tool has productively taken over the workload of the admin department with its well-organized, easy, and reliable online school management software."Student Management System (SMS) is a solution tool that is designed to track, maintain and manage all the data generated by a School, including the grades of a student, their attendance, their interpersonal activities records, etc.,"

The Student Management System software is created to help manage the student's admissions activities, starting from initial communication to course enrolment. The Payments paid or received can also be managed and recorded through Student Management System; unlike invoice generation, credit notes, refunds, etc., SMS stores all the necessary information about parents and staff suppliers, and contractors.

Student Management System software is helpful for teachers and school supervisors and also support applications and dashboards effective for students and parents as well for communication and combined data collection.

## **1.1 Objective**

A student management system makes it possible for parents to gain total visibility into their children's school activities, assignments, attendance, and performance . It also means a smoother transition between classes and grades, as all teachers have access to a single source of truth about their students performance. Traditionally, school administrators manage timetables and schedules. However, dedicated school administration software provided through a student management platform allows much of this process to be automated. This results in better time management and timetable management. The cost incurred from manually managing students and school activities is often staggering from not only a budgetary standpoint, but also in terms of time. With a student management system, teachers can spend less time holding up the foundation of the student experience, and more time in the classroom.

## **1.2 Scope**

SMS is used for making the process of managing information easier and to also make it accessible. It keeps track of student information like:

- Health information
- Schedules
- Grade book information
- Behavior data
- Age
- Transcript information
- Grade level



## 2.Code

- **main.h**

```
#include <iostream>

#include "loading.h"
#include <string>
#include <Windows.h>
#include "adminFunction.h"
using namespace std;
void passwordVerification(void);
void mainMenu(void);
void passwordVerification()
{ system("cls");
string password;
cout << "\n\n\n\n\n\t\t\t\t\t";
cout << "\n\n\n\t\t\t\t\tEnter Password : ";

do
{
cin >> password;
if (password != "password")
{
system("cls");
cout << "\n\n\n\n\n\t\t\t\t\t"
<< "wrong password!, try again or type 'quit' / 'exit' to Quit The program.";
cout << "\n\n\n\t\t\t\t\tEnter Password : ";
}
if (password == "Quit" || password == "quit" || password == "exit" || password == "Exit" ||
password == "QUIT" || password == "EXIT")
{
system("cls");
cout << "\t\t\n\n\n\n\n\n\n\n\t\t\t\t\tQuitting The Program";
for (int i = 0; i < 4; i++)
{
```

```

Sleep(1000); /
cout << ".";
}
exit(0);
}
}
while (password != "password");
    mainMenu();
}

```

```

int main()
{
    ios_base::sync_with_stdio(false);
    cin.tie(NULL);
    cout.tie(NULL);
    system("color 9F");
    passwordVerification();
    return 0;
}

```

- **Loading.h**

```

#include<iostream>
#include<windows.h>
using namespace std;
void loadingBar()
{
    system("cls");
    system("color 9F");

    char a = 177, b = 219;
    //cout<<"\n\n\n\n\n\t\t\t\t\tStudent's Data Management System";
    cout<<"\n\t\t\t\t\tProject By Ajay Singh";
    cout<<"\n\n\n\t\t\t\t\tLoading...\n";
}

```

```
cout<<endl;
```

```
cout<<"\t\t\t\t\t";
```

```
for(int i = 0;i<26;i++)
```

```
cout<<a;
```

```
cout<<"\r";
```

```
cout<<"\t\t\t\t\t";
```

```
for(int i = 0; i < 26 ; i++)
```

```
{
```

```
    cout<<b;
```

```
    Sleep(200);
```

```
}
```

## 2.1 Screenshots

```
#include <iostream>
#include "loading.h"
#include <string>
#include <Windows.h>
#include "adminFunction.h"
using namespace std;
void passwordVerification(void);
void mainMenu(void);
void passwordVerification()
{ system("cls");
string password;
cout << "\n\n\n\n\n\t\t\t\t\t";
cout << "\n\n\n\t\t\t\t\tEnter Password : ";

do
{
    cin >> password;

    if (password != "password")
    {
        system("cls");
        cout << "\n\n\n\n\n\t\t\t\t\t"
            << "wrong password!, try again or type 'quit' / 'exit' to Quit The program.";
        cout << "\n\n\n\t\t\t\t\tEnter Password : ";
    }

    if (password == "Quit" || password == "quit" || password == "exit" || password ==
        "Exit" || password == "QUIT" || password == "EXIT")
    {
        system("cls");
        cout << "\t\t\n\n\n\n\n\n\n\t\t\t\t\tQuitting The Program";
```

```

        for (int i = 0; i < 4; i++)
        {

            Sleep(1000); /
            cout << ".";
        }

        exit(0);
    }

}

while (password != "password");
mainMenu();
}

int main()
{
    ios_base::sync_with_stdio(false);
    cin.tie(NULL);
    cout.tie(NULL);
    system("color 9F");

    passwordVerification();
    return 0;
}

```

```

#include<iostream>
#include<windows.h>
using namespace std;
void loadingBar()
{
    system("cls");
    system("color 9F");

    char a = 177, b = 219;
    //cout<<"\n\n\n\n\t\t\t\tStudent's Data Management System";
    cout<<"\n\t\t\t\t\tProject By Ajay Singh";
    cout<<"\n\n\n\t\t\t\t\tLoading...\n";
    cout<<endl;
    cout<<"\t\t\t\t\t";

    for(int i = 0;i<26;i++)

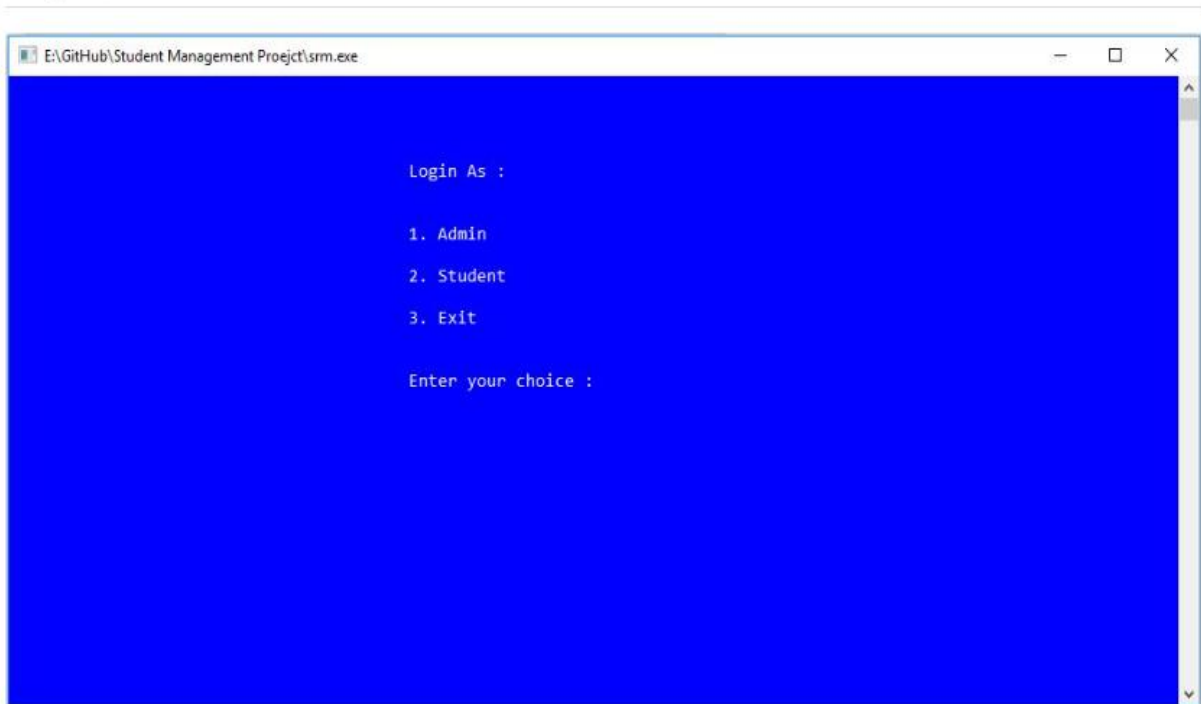
    cout<<a;

    cout<<"\r";
    cout<<"\t\t\t\t\t";
    for(int i = 0; i < 26 ; i++)
    {
        cout<<b;
        Sleep(200);
    }
}

```

## 2.2Output

### Login



### Logged in as Admin



## Viewing Students Records

E:\GitHub\Student Management Project\srm.exe

|Students Record|

Roll	Name	College	branch	Attendance	Physics	Chemistry	Maths
1	Ajay	BIST	IT	89%	97	99	90
2	TEST	BIRT	CSE	78%	99	77	89
3	Raj	BIST	IT	98%	94	89	85
4	Aarti	BIRT	EM	89%	89	88	99
5	TEST2	TIT	CE	89%	99	89	99

1. Add Record  
2. Delete Record  
3. Update Record  
5. Main Menu  
6. Exit

Enter choice :

## Records Saved in Excel File

data.csv - Microsoft Excel

	A	B	C	D	E	F	G	H	I	J	K	L
1	1	Test1	BIST	IT	89%	97	99	90				
2	2	Test2	BIRT	CSE	78%	99	77	89				
3	3	Test3	BIST	IT	98%	94	89	85				
4	4	Test4	BIRT	EM	89%	89	88	99				
5	5	Test5	TIT	CE	89%	99	89	99				
6	6	Test6	LNCT	ME	88%	89	89	88				
7												
8												
9												
10												
11												
12												
13												
14												
15												



### **3.Conclusion**

Student management systems make faculty jobs more accessible by giving them an easy place to find and sort information. This system allows teachers and student managers to follow with their student engagement.

The idea is to create a scenario that makes the lives of administration and teachers easier. So try a bunch of different systems until you find the right one for you. It is helpful to perform paperless work and manage all data. It provides easy, accurate, unambiguous and faster data access.

#### **4.Bibliography**

1. <https://www.w3schools.com>