

graphicx

Vedansh Shrivastava

0801CS211096

PP-Final project

Student Management System

1 Aim

The Aim of this mini project program is to create a login system and Register the full data of Students.

2 Working

The use can either register a new profile or sign in to an already created profile, the user will then be able to enter data,search,remove and show.It save the data and remove it by one move.

3 Following are the functions used in this project

3.1 studentsdata

This function is used to enter the data of student or students.

3.2 search

This function is used to search the data which is already written.

3.3 show

This function is used for to show the data of student.

3.4 update

The function update the data entry of students.

3.5 rem

This function remove the data of student which is entered by user.

4 Code In C++ language:

```
[style=chstyle,language=C++]
#include<bits/stdc++.h>
using namespace std;
struct Info
{
    string DOB;
    string contact;
    string enrollment_number,address,name;
};
int t=0;
struct Info e[150]; //creating Array of Structures of size 150
// making funtion which store the data of students
void studentdata(){

    int cnt=0;

    cout<<"Enter the number of Student?"<<'\\n';

    cin>>cnt;

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

        cout<<"Enter data of Student "<<i+1<<'\\n'<<'\\n';

        cout<<"Enter Student name: ";

        cin>>e[i].name;

        cout<<"Enter DOB: ";

        cin>>e[i].DOB;

        cout<<"Enter Enrollment Number : ";

        cin>>e[i].enrollment_number;

        cout<<"Enter address: ";

        cin>>e[i].address;

        cout<<"Enter contact: ";

        cin>>e[i].contact;
    }
    t = t+cnt;
}
```

```
//this function show the data of student
void show(){
if(t!=0){
for(int i=0;i<t;i++){

cout<<"Data of Student "<<i+1<<'\\n';

cout<<"Name: "<<e[i].name<<'\\n';

        cout<<"DOB: "<<e[i].DOB<<'\\n';

cout<<"Enrollment_number : "<<e[i].enrollment_number<<'\\n';

cout<<"Address: "<<e[i].address<<'\\n';

cout<<"Contact: "<<e[i].contact<<'\\n';
}
    }
    else{

        cout<<"Data is not entered"<<'\\n';
    }
}
//for finding the data of student
void search(){

if(t!=0){

string enrollment_number;

cout<<"Enter enrollment_number of Student which you want to search"<<'\\n';

cin>>enrollment_number;

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

if(e[i].enrollment_number==enrollment_number){

cout<<"Data of Student "<<i+1<<'\\n';

cout<<"Name: "<<e[i].name<<'\\n';

        cout<<"DOB: "<<e[i].DOB<<'\\n';

cout<<"Enrollment_number: "<<e[i].enrollment_number<<'\\n';

cout<<"Address: "<<e[i].address<<'\\n';
```

```
cout<<"Contact: "<<e[i].contact<<'\n';

break;

}

if(i==t-1){

cout<<"Student record not found"<<'\n';
}
}

}else{

cout<<"No data is entered"<<'\n';

}
}
//FUNCTION FOR UPDATING THE DATA OF STUDENT
void update(){

if(t!=0){

string enrollment_number;

cout<<"Enter enrollment_number of Student which you want to update"<<'\n';

cin>>enrollment_number;

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

if(e[i].enrollment_number==enrollment_number){

cout<<"Old data of Student "<<i+1<<'\n';

cout<<"Name: "<<e[i].name<<'\n';

cout<<"Enrollment_number: "<<e[i].enrollment_number<<'\n';

cout<<"Address: "<<e[i].address<<'\n';

cout<<"Contact: "<<e[i].contact<<'\n';

cout<<"DOB: "<<e[i].DOB<<'\n';

cout<<"\nEnter new data"<<'\n';

cout<<"Enter Student name: ";
```

```
cin>>e[i].name;

cout<<"Enter Enrollment_number: ";

cin>>e[i].enrollment_number;

cout<<"Enter address: ";

cin>>e[i].address;

cout<<"Enter contacts: ";

cin>>e[i].contact;

cout<<"Enter DOB: ";

cin>>e[i].DOB;

break;
}
if(i==t-1){

cout<<"No such record found"<<'\\n';
}
}
}
else{

cout<<"No data is entered"<<'\\n';
}
}
//function for remove the data
void rem(){

if(t!=0){
int press;
cout<<"Press 1 to delete the specific student record"<<'\\n';
cout<<"Press 2 to delete full record"<<'\\n';
cin>>press;

if(press==1){

string enrollment_number;
cout<<"Enter enrollment_number of Student which you want to delete"<<'\\n';
cin>>enrollment_number;
for(int i=0;i<t;i++){
if(e[i].enrollment_number==enrollment_number){
```

```
e[i].name=e[i+1].name;

e[i].enrollment_number=e[i+1].enrollment_number;

e[i].address=e[i+1].address;

e[i].contact=e[i+1].contact;

e[i].DOB=e[i+1].DOB;
t--;
cout<<"Your required record is deleted"<<'\\n';
break;
}

if(i==t-1){
cout<<"No such record found"<<'\\n';
}
}
}
else if (press==2){
t=0;
cout<<"All record is deleted"<<'\\n';
}
else{

cout<<"Invalid Input"<<'\\n';
}
}

else{
cout<<"No data is entered"<<'\\n';

}
}

int main(){

cout<<"\\nStudent Management System  "<<"\\n\\n";
    string username,password;
    cout<<"REGISTER"<<'\\n'<<'\\n';
cout<<"Enter username: ";
cin>>username;
    char x;
cout<<"Create a Strong password: ";
cin>>password;
cout<<"\\nNice..Your ID Created Successfully!!!\\n";
set_go:    // goto used
string cspt,uname,pword,capt="AQWSR";
```

```
cout<<"\nLogin to Student Management System\n"<<'\\n';
cout<<"\nEnter your username: ";
cin>>uname;
cout<<"Enter password: ";
cin>>pword;
cout<<"Captcha : AQWSR \\n";
cout<<"Enter captcha = ";
cin>>cspt;
if(cspt==capt&&pword==password&&uname==username)
{
while(1){
cout<<"Choose the key carefully! :"<<'\\n';
cout<<"Press key 1 for Data Entry of Student"<<'\\n';
cout<<"Press key 2 for Show the Data of Student"<<'\\n';
cout<<"Press key 3 for Search the Data of Student"<<'\\n';
cout<<"Press key 4 for Update data of Student"<<'\\n';
cout<<"Press key 5 for Delete data of Student"<<'\\n';
cout<<"Press key L for Logout"<<'\\n';
cout<<"Press key Q for Quit"<<'\\n';

cin>>x;
switch(x){
case '1':
studentdata();
break;
case '2':
show();
break;
case '3':
search();
break;
case '4':
update();
break;
case '5':
rem();
break;
case 'L':
goto set_go;
break;
case '1':
goto set_go;
break;
case 'Q':
exit(0);
break;
case 'q':
exit(0);
```

```
break;
default:
cout<<"Invalid Input!!!Please check you choose Input from Above Only."<<'\\n';
break;
}
}
}
else if(uname!=username)
{
cout<<"Username not match please Try again ";
goto set_go; //using goto statement
}
else{
cout<<"Invalid Username or password";//if password or captcha not match
goto set_go;
}
return 0;
}
```