C++ Project on Attendance Management

```cpp
#include <iostream>
#include <string>
#include <fstream>
#include <cstring>

using namespace std;

int adminView();
int studentView();
int studentLogin();
int checkCredentials(string userName, string password);
int getAllStudentsbyRollNo();
int deleteAllStudents();
int deleteStudentbyRollno();
int checkListOfStudentsRegistered();
int checkPresenseCountbyRollno();
int getListOfStudentsWithTheirPresenseCount();
int registerStudent();
int adminLogin();
int registerStudent();
int markMyAttendance(string username);
int countMyAttendance(string username);
int delay();

int delay()
{
for(int i = 0; i<3; i ++)
{
        cout<<"\n Saving Records ...";
    for(int ii = 0; ii<20000; ii ++)
    {
        for(int iii = 0; iii<20000; iii ++)
        { }
    }
}

cout<<"\n Exiting Now ...";
for(int i = 0; i<3; i ++){
    for(int ii = 0; ii<20000; ii ++) {
      for(int iii = 0; iii<20000; iii ++){
          }
    }
}

return 0;
}

int adminView()
{
int goBack = 0;
```

```cpp
while(1)
{
system("cls");
cout<<"\n 1 Register a Student";
cout<<"\n 2 Delete All students name registered";
cout<<"\n 3 Delete student by rollno";
cout<<"\n 4 Check List of Student registered by userame";
cout<<"\n 5 Check presense count of any student by Roll No";
cout<<"\n 6 Get List of student with their attendance count";
cout<<"\n 0. Go Back <- \n";
int choice;

cout<<"\n Enter you choice: ";
cin>>choice;

switch(choice)
{
        case 1: registerStudent();break;
        case 2: deleteAllStudents(); break;
        case 3: deleteStudentbyRollno(); break;
        case 4: checkListOfStudentsRegistered(); break;
        case 5: checkPresenseCountbyRollno(); break;
        case 6: getListOfStudentsWithTheirPresenseCount(); break;
        case 0: goBack = 1;break;
    default: cout<<"\n Invalid choice. Enter again ";
    getchar();
}

if(goBack == 1)
{
break; //break the loop
}

}

return 0;
}

int studentLogin()
{
system("cls");
cout<<"\n -------- Student Login ---------";
studentView();
delay();
return 0;
}


int adminLogin()
{
system("cls");
cout<<"\n --------- Admin Login --------";

string username;
```

```cpp
    string password;

    cout<<"\n Enter username : ";
    cin>>username;
    cout<<"\n Enter password : ";
    cin>>password;

    if(username=="admin" && password=="admin@2")
    {
        adminView();
        getchar();
        delay();
    }
    else
    {
    cout<<"\n Error ! Invalid Credintials..";
    cout<<"\n Press any key for main menu ";
    getchar();getchar();
    }

    return 0;
    }


    int checkStudentCredentials(string username, string password)
    {
    // read file line by line & check if username-password.dat exist?
    // if it exsist return 1 else 0

    ifstream read;
    read.open("db.dat");

    if (read) {
    // The file exists, and is open for input
    int recordFound = 0;
    string line;
    string temp = username + password + ".dat";
    cout<<"\n file name is : "<<temp;
    while(getline(read, line)) {
            if(line == temp)
            {
                    recordFound = 1;
                    break;
            }
    }

    if(recordFound == 0)
        return 0;
    else
       return 1;
    }
    else
    {
        return 0;
```

```
    }

    }
```