#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<2; i ++)

{

cout<<"\n Saving Records ...";

for(int ii = 0; ii<2000; ii ++)

{

for(int iii = 0; iii<2000; iii ++)

{ }

}

}

cout<<"\n Exiting Now ...";

for(int i = 0; i<2; i ++){

for(int ii = 0; ii<2000; ii ++) {

for(int iii = 0; iii<2000; iii ++){

}

}

}

return 0;

}

int adminView()

{

int goBack = 0;

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;

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;

}

}

int getAllStudentsbyName()

{

cout<<"\n List of All Students by their Name \n";

cout<<"\n Please any key to continue..";

getchar();getchar();

return 0;

}

int getAllStudentsbyRollNo()

{

cout<<"\n List of All Students by their Roll No \n";

cout<<"\n Please any key to continue..";

getchar();getchar();

return 0;

}

int deleteStudentbyRollno()

{

cout<<"\n Delete any Student by their Roll No \n";

cout<<"\n Please any key to continue..";

getchar();getchar();

return 0;

}

int checkPresenseCountbyRollno()

{

cout<<"\n Check presense count of any Student by Roll No \n";

cout<<"\n Please any key to continue.." ;

getchar();getchar();

return 0;

}

int checkAllPresenseCountbyRollno()

{

cout<<"\n Check presense count of All Students by Roll No & Name \n";

cout<<"\n Please any key to continue.." ;

getchar();getchar();

return 0;

}

int studentView()

{

cout<<"\n ------- Student Login-------- \n";

string username, password;

cout<<"\n Enter username : ";

cin>>username;

cout<<"\n Enter password : ";

cin>>password;

int res = checkStudentCredentials(username, password);

if(res == 0)

{

cout<<"\n Invalid Credentials !!";

cout<<"\n Press any key for Main Menu..";

getchar(); getchar();

return 0;

}

int goBack = 0;

while(1)

{

system("cls");

cout<<"\n 1 Mark Attendance fo Today ";

cout<<"\n 2 Count my Attendance";

cout<<"\n 0. Go Back <- \n";

int choice;

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

cin>>choice;

switch(choice)

{

case 1: markMyAttendance(username); break;

case 2: countMyAttendance(username); break;

case 0: goBack = 1;break;

default: cout<<"\n Invalid choice. Enter again ";

getchar();

}

if(goBack == 1)

{

break; //break the loop

}

}

}

int markMyAttendance(string username)

{

cout<<"\n Mark Attendance for today !!";

cout<<"\n Please any key to continue..";

getchar();getchar();

return 0;

}

int countMyAttendance(string username)

{

cout<<"\n Count my attendace for today !!";

cout<<"\n Please any key to continue..";

getchar();getchar();

return 0;

}

int deleteAllStudents()

{

cout<<"\n In delete all students !!";

cout<<"\n Please any key to continue..";

getchar(); getchar();

return 0;

}

int checkListOfStudentRegistered()

{

cout<<"\n List of All registered registered !!";

cout<<"\n Please any key to continue..";

getchar(); getchar();

return 0;

}

int getListOfStudentsWithTheirPresenseCount()

{

cout<<"\n All Students with their Presense count !!";

cout<<"\n Please any key to continue..";

getchar(); getchar();

return 0;

}

int checkListOfStudentsRegistered(){

cout<<"\n - Check List of Student Registered by Username-- ";

//check if record already exist..

ifstream read;

read.open("db.dat");

if(read)

{ int recordFound =0;

string line;

while(getline(read, line)) {

char name[100];

strcpy(name, line.c\_str());

char onlyname[100];

strncpy(onlyname, name, (strlen(name) - 4));

cout<<" \n " << onlyname;

}

read.close();

}

else

{

cout<<"\n No Record found :(";

}

cout<<"\n Please any key to continue..";

getchar(); getchar();

return 0;

}

int registerStudent()

{

cout<<"\n ----- Form to Register Student ---- \n";

string name, username, password, rollno, address, father, mother;

cout<<"\n Enter Name : "; cin>>name;

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

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

cout<<"\n Enter rollno : "; cin>>rollno;

getchar();

char add[100];

cout<<"\n Enter address : "; cin.getline(add, 100);

cout<<"\n Enter father : "; cin>>father;

cout<<"\n Enter mother : "; cin>>mother;

//check if record already exist..

ifstream read;

read.open("db.dat");

if(read)

{ int recordFound =0;

string line;

while(getline(read, line)) {

if(line == username+".dat" )

{

recordFound = 1 ;

break;

}

}

if(recordFound == 1)

{

cout<<"\n Username already Register. Please choose another username ";

getchar(); getchar();

delay();

read.close();

return 0;

}

}

read.close();

ofstream out;

out.open("db.dat", ios::app);

out<<username+".dat"<<"\n";

out.close();

ofstream out1;

string temp = username+".dat";

out1.open(temp.c\_str());

out1<<name<<"\n"; out1<<username<<"\n"; out1<<password<<"\n";

out1<<rollno<<"\n"; out1<<add<<"\n"; out1<<father<<"\n";

out1<<mother<<"\n";

out1.close();

cout<<"\n Student Registered Successfully !!";

cout<<"\n Please any key to continue..";

getchar(); getchar();

return 0;

}

int main(int argc, char\*\* argv) {

while(1)

{

system("cls");

cout<<"\n Attendance Management System \n";

cout<<"-------------------------------------\n\n";

cout<<"1. Student Login\n";

cout<<"2. Admin Login\n";

cout<<"0. Exit\n";

int choice;

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

cin>>choice;

switch(choice)

{

case 1: studentLogin(); break;

case 2: adminLogin(); break;

case 0:

while(1)

{

system("cls");

cout<<"\n Are you sure, you want to exit? y | n \n";

char ex;

cin>>ex;

if(ex == 'y' || ex == 'Y')

exit(0);

else if(ex == 'n' || ex == 'N')

{

break;

}

else{

cout<<"\n Invalid choice !!!";

getchar();

}

}

break;

default: cout<<"\n Invalid choice. Enter again ";

getchar();

}

}

return 0;

}