E-Progress Card

* A project developed in C

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Vidya Jyothi Institute of Technology

VJIT

**Project Title** :- E-Progress Card

**Language** :- C

**Compiler** :- Dev Cpp

**Team** **count** :- 2

**Names** **of** **the** :- Aditya Komaravolu

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**Abstract** :-

The main aim of this project is to generate an electronic progress card. In this project it has two login systems.

1. Management Login : In this the management need to verify their identity by entering their login credentials. Once their identity is verified then they will be given some of the options which are as follows

* To view all the records existing in the file
* To add a new record
* To delete a record
* To modify an existing record
* To view the progress of a specific student

1. Student Login :- In this, student need to verify his/her identity. After this is completed then they will be provided only to view his or her marks only.

**Project Code** :

#include<stdio.h>

#include<stdlib.h>

#include<string.h>

void student\_login();

void management\_login();

void write\_student();

void display\_all();

void display\_specific(num);

void modify\_student();

void delete\_student();

struct student

{

int rollno;

char name[50];

int pps\_marks,chem\_marks,math\_marks,eng\_marks;

float per;

char grade;

int std;

}st;

FILE \*fptr;

int main()

{

int i;

do

{

printf("Select any one of the option\n");

printf("1.Management login\n");

printf("2.Student login\n");

printf("3.Exit\n");

printf("Enter your choice\n");

scanf("%d",&i);

switch(i)

{

case 1:

printf("1.Management login\n");

management\_login();

break;

case 2:

printf("2.Student login\n");

student\_login();

break;

case 3:

printf("Exit\n");

exit(0);

break;

default:

printf("Please enter correct choice\n");

}

}

while(i!=3);

return 0;

}

void management\_login()

{

char str1[20],str2[20];

int i,j,num,count=0;

puts("Enter the username\n");

scanf("%s",str1);

puts("Enter password\n");

scanf("%s",str2);

for(i=0;i<10;i++)

{

if(str1[i]==str2[i])

count++;

}

if(count==10)

{

printf("Login Successful\n");

printf("Now you can proceed with the further operations");

}

else

printf("Please, check your login credentials");

do

{

printf("Select any one option\n");

printf("1.To enter student marks\n");

printf("2.Display the marks of all the students\n");

printf("3.Display the marks of only a specific student\n");

printf("4.Modifty the marks which are already existing\n");

printf("5.Delete the marks of a particular student\n");

printf("6.Exit\n");

printf("Select your choice\n");

scanf("%d",&j);

switch(j)

{

case 1:

write\_student();

break;

case 2:

display\_all();

break;

case 3:

{

int num;

printf("\n\n\tPlease enter the roll number of the student/n ");

scanf("%d",&num);

display\_specific(num);

}

break;

case 4:

modify\_student();

break;

case 5:

delete\_student();

break;

case 6:

exit(0);

break;

default:

printf("Please select a valid choice/n");

}

}

while (j!=6);

}

void write\_student()

{

fptr=fopen("text.txt","ab");

printf("\nPlease enter the details of student \n");

printf("\nEnter the roll number of student ");

scanf("%d",&st.rollno);

fflush(stdin);

printf("\n\nEnter the Name of student ");

gets(st.name);

printf("\nEnter the marks in pps out of 100 : ");

scanf("%d",&st.pps\_marks);

printf("\nEnter the marks in chemistry out of 100 : ");

scanf("%d",&st.chem\_marks);

printf("\nEnter the marks in maths out of 100 : ");

scanf("%d",&st.math\_marks);

printf("\nEnter the marks in english out of 100 : ");

scanf("%d",&st.eng\_marks);

st.per=(st.pps\_marks+st.chem\_marks+st.math\_marks+st.eng\_marks)/4.0;

if(st.per>=60)

st.grade='A';

else if(st.per>=50 &&st.per<60)

st.grade='B';

else if(st.per>=33 &&st.per<50)

st.grade='C';

else

st.grade='F';

fwrite(&st,sizeof(st),1,fptr);

fclose(fptr);

printf("\nStudent record has been created ");

getch();

}

void display\_all()

{

printf("\n\n\n\t\t RECORDS !!!\n\n");

fptr=fopen("text.txt","rb");

while((fread(&st,sizeof(st),1,fptr))>0)

{

printf("\nRoll Number of Student : %d",st.rollno);

printf("\nName of student : %s",st.name);

printf("\nMarks in PPS : %d",st.pps\_marks);

printf("\nMarks in Chemistry : %d",st.chem\_marks);

printf("\nMarks in Maths : %d",st.math\_marks);

printf("\nMarks in English : %d",st.eng\_marks);

printf("\nPercentage of student is : %.2f",st.per);

printf("\nGrade of student is : %c",st.grade);

printf("\n\n====================================\n");

getch();

}

fclose(fptr);

getch();

}

void display\_specific(int n)

{

int flag=0;

fptr=fopen("text.txt","rb");

while((fread(&st,sizeof(st),1,fptr))>0)

{

if(st.rollno==n)

{

printf("\nRoll number of student : %d",st.rollno);

printf("\nName of student : %s",st.name);

printf("\nMarks in PPS : %d",st.pps\_marks);

printf("\nMarks in Chemistry : %d",st.chem\_marks);

printf("\nMarks in Maths : %d",st.math\_marks);

printf("\nMarks in English : %d",st.eng\_marks);

printf("\nPercentage of student is : %.2f",st.per);

printf("\nGrade of student is : %c",st.grade);

flag=1;

}

}

fclose(fptr);

if(flag==0)

printf("\n\nRecord does not exist");

getch();

}

void modify\_student()

{

int no,found=0;

printf("\n\n\tTo Modify ");

printf("\n\n\tPlease enter the roll number of the student");

scanf("%d",&no);

fptr=fopen("text.txt","rb+");

while((fread(&st,sizeof(st),1,fptr))>0 && found==0)

{

if(st.rollno==no)

{

printf("\nRoll number of student : %d",st.rollno);

printf("\nName of student : %s",st.name);

printf("\nMarks in PPS : %d",st.pps\_marks);

printf("\nMarks in Chemistry : %d",st.chem\_marks);

printf("\nMarks in Maths : %d",st.math\_marks);

printf("\nMarks in English : %d",st.eng\_marks);

printf("\nPercentage of student is : %.2f",st.per);

printf("\nGrade of student is : %c",st.grade);

printf("\nPlease enter the details of the student \n");

printf("\nEnter the roll number of the student ");

scanf("%d",&st.rollno);

fflush(stdin);

printf("\n\nEnter the name of student ");

gets(st.name);

printf("\nEnter the marks in PPS out of 100 : ");

scanf("%d",&st.pps\_marks);

printf("\nEnter the marks in chemistry out of 100 : ");

scanf("%d",&st.chem\_marks);

printf("\nEnter the marks in maths out of 100 : ");

scanf("%d",&st.math\_marks);

printf("\nEnter the marks in english out of 100 : ");

scanf("%d",&st.eng\_marks);

st.per=(st.pps\_marks+st.chem\_marks+st.math\_marks+st.eng\_marks)/(4.0);

if(st.per>=60)

st.grade='A';

else if(st.per>=50 && st.per<60)

st.grade='B';

else if(st.per>=33 && st.per<50)

st.grade='C';

else

st.grade='F';

fseek(fptr,-(long)sizeof(st),1);

fwrite(&st,sizeof(st),1,fptr);

printf("\n\n\t Record Updated");

found=1;

}

}

fclose(fptr);

if(found==0)

printf("\n\n Record Unavailablle ");

getch();

}

void delete\_student()

{

int no;

FILE \*fptr2;

printf("\n\n\n\tDelete Record");

printf("\n\nPlease enter the roll number of student you wish to delete");

scanf("%d",&no);

fptr=fopen("text.txt","r”);

fptr2=fopen("Temp.txt","wb");

rewind(fptr);

while((fread(&st,sizeof(st),1,fptr))>0)

{

if(st.rollno!=no)

{

fwrite(&st,sizeof(st),1,fptr2);

}

}

fclose(fptr2);

fclose(fptr);

remove("text.txt");

rename("Temp.txt","text.tx");

printf("\n\n\tRecord Deleted ..");

getch();

}

void student\_login()

{

char str1[20],str2[20];

int i,j,num,count=0,a;

puts("Enter the username\n");

scanf("%s",str1);

puts("Enter password\n");

scanf("%s",str2);

for(i=0;i<10;i++)

{

if(str1[i]==str2[i])

count++;

}

if(count==10)

{

printf("Login Successful\n");

printf("Now you can proceed with the further operations");

}

else

printf("Please, check your login credentials");

printf("Enter 1 to display your result");

scanf("%d",&a);

if(a==1)

{

int num;

printf("\n\n\tPlease enter your roll number/n ");

scanf("%d",&num);

display\_specific(num);

}

else

printf("Please enter a valid number");

}