#include<stdio.h>

#include<string.h>

#include<stdlib.h>

#include<time.h>

#include<conio.h>

#include<windows.h>

typedef struct student{char roll[10];

char name[25];

char course[10];

char gender;

char dob[11];

int age;

char d1;

char d2;

char vacc\_name[15];

char d1date[11];

char d2date[11];

char aadhar[13];

char phone[11];

}student;

struct user{char username[7];

char password[4];};

void passinput(char p[4])

{

int i;

char ch;

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

{

ch=getch();

if(ch==13)

{

break;

}

p[i]=ch;

printf("\*");

}

p[i]='\0';

printf("\n");

}

void createpassword()

{

struct user \*u;

int i,n;

u=(struct user\*)calloc(n,sizeof(struct user));

FILE \*fp;

fp=fopen("Login.txt","w");

printf("Enter the no of records:");

scanf("%d",&n);

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

{

printf("Enter the username:\t");

scanf("%s",u[i].username);

printf("Enter the password:\t");

scanf("%s",u[i].password);

fwrite(&u[i],sizeof(struct user),1,fp);

}

fclose(fp);

}

void addpassword()

{

struct user \*u;

int i,n;

u=(struct user\*)calloc(n,sizeof(struct user));

printf("Enter the no of records:");

scanf("%d",&n);

FILE \*fp;

fp=fopen("Login.txt","a");

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

{

printf("Enter the username:");

scanf("%s",u[i].username);

printf("Enter the password:");

scanf("%s",u[i].password);

fwrite(&u[i],sizeof(struct user),1,fp);

}

fclose(fp);

}

void displaypassword()

{

struct user u1;

FILE \*fp;

fp=fopen("Login.txt","r");

printf("USERNAME\tPASSWORD\n");

while(fread(&u1,sizeof(struct user),1,fp))

{

printf("%s\t\t%s\n",u1.username,u1.password);

}

fclose(fp);

}

void deletepassword(char ro[7])

{

struct user u1;

int found;

FILE \*fp,\*fp1;

fp=fopen("Login.txt","r");

fp1=fopen("Temp.txt","w");

while(fread(&u1,sizeof(struct user),1,fp))

{

if(strcmp(ro,u1.username)==0)

{

found=1;

}

else

{

fwrite(&u1,sizeof(struct user),1,fp1);

}

}

fclose(fp);

fclose(fp1);

remove("Login.txt");

rename("Temp.txt","Login.txt");

}

void create(char usern[7])

{

FILE \*fp1;

student s;

fp1=fopen("vaccine.txt","a");

strcpy(s.roll,usern);

printf("Enter your name : ");

scanf(" %[^\n]s",&s.name);

printf("Enter your course : ");

scanf("%s",&s.course);

printf("Enter your sex : ");

scanf(" %c",&s.gender);

printf("Enter the name of the vaccine : ");

scanf(" %s",&s.vacc\_name);

printf("Enter the date of birth : ");

scanf("%s",&s.dob);

printf("Enter your age : ");

scanf("%d",&s.age);

dd1:

printf("Have you taken dose-1(y/n) : ");

scanf(" %c",&s.d1);

if(s.d1=='y' || s.d1=='Y')

{

printf("Enter the date of dose-1(dd/mm/yyyy) : ");

scanf("%s",&s.d1date);

}

else if(s.d1=='n' || s.d1=='N')

{

strcpy(s.d1date,"-");

}

else

{

printf("Invalid input\n");

Beep(500,250);

goto dd1;

}

dd2:

printf("Have you taken dose-2(y/n) : ");

scanf(" %c",&s.d2);

if(s.d2=='y' || s.d2=='Y')

{

printf("Enter the date of dose-1(dd/mm/yyyy) : ");

scanf("%s",&s.d2date);

}

else if(s.d2=='n' || s.d2=='N')

{

strcpy(s.d2date,"-");

}

else

{

printf("Invalid input\n");

goto dd2;

}

a:

printf("Enter the Aadhar number : ");

scanf(" %s",&s.aadhar);

if(strlen(s.aadhar)!=12)

{

printf("Invalid aadhar number\n");

Beep(500,250);

goto a;

}

m:

printf("Enter the mobile number : ");

scanf(" %s",&s.phone);

if(strlen(s.phone)!=10)

{

printf("Invalid mobile number\n");

Beep(500,250);

goto m;

}

fwrite(&s,sizeof(student),1,fp1);

fclose(fp1);

}

void view(char usern[7])

{

student s;

FILE \*fp1;

int f=0;

fp1=fopen("vaccine.txt","r");

printf("\tROLL NUMBER\tNAME\t\tCOURSE\t\tGENDER\t\tVACCINE NAME\t\tDATE OF BIRTH\tAGE\tDOSE-1\t\tDOSE-2\t\tAADHAR NUMBER\tPHONE NUMBER\n");

while(fread(&s,sizeof(student),1,fp1))

{

if(strcmp(s.roll,usern)==0)

{

f=1;

printf("\t%-15s\t%-15s\t%-15s\t%-15c\t%-15s\t\t%-15s\t%d\t%-15s\t%-15s\t%-15s\t%-15s\n\n",s.roll,s.name,s.course,s.gender,s.vacc\_name,s.dob,s.age,s.d1date,s.d2date,s.aadhar,s.phone);

}

}

if(!f)

{

printf("Record not found\n");

}

fclose(fp1);

}

void edit(char usern[7])

{

student s;

FILE \*fp1,\*fp2;

int f;

fp1=fopen("vaccine.txt","r");

fp2=fopen("1.txt","w");

while(fread(&s,sizeof(student),1,fp1))

{

if(strcmp(s.roll,usern)==0)

{

f=1;

fp1=fopen("vaccine.txt","a");

strcpy(s.roll,usern);

printf("Enter your name : ");

scanf(" %[^\n]s",&s.name);

printf("Enter your course : ");

scanf("%s",&s.course);

printf("Enter your sex : ");

scanf(" %c",&s.gender);

printf("Enter the name of the vaccine : ");

scanf("%s",&s.vacc\_name);

printf("Enter the date of birth : ");

scanf("%s",&s.dob);

printf("Enter your age : ");

scanf("%d",&s.age);

dd1:

printf("Have you taken dose-1(y/n) : ");

scanf(" %c",&s.d1);

if(s.d1=='y' || s.d1=='Y')

{

printf("Enter the date of dose-1(dd/mm/yyyy) : ");

scanf("%s",&s.d1date);

}

else if(s.d1=='n' || s.d1=='N')

{

strcpy(s.d1date,"-");

}

else

{

printf("Invalid input\n");

goto dd1;

}

dd2:

printf("Have you taken dose-2(y/n) : ");

scanf(" %c",&s.d2);

if(s.d2=='y' || s.d2=='Y')

{

printf("Enter the date of dose-1(dd/mm/yyyy) : ");

scanf("%s",&s.d2date);

}

else if(s.d2=='n' || s.d2=='N')

{

strcpy(s.d2date,"-");

}

else

{

printf("Invalid input");

goto dd2;

}

a:

printf("Enter the Aadhar number : ");

scanf(" %s",&s.aadhar);

if(strlen(s.aadhar)!=12)

{

printf("Invalid aadhar number\n");

goto a;

}

m:

printf("Enter the mobile number : ");

scanf(" %s",&s.phone);

if(strlen(s.phone)!=10)

{

printf("Invalid mobile number\n");

goto m;

}

}

fwrite(&s,sizeof(student),1,fp2);

}

fclose(fp1);

fclose(fp2);

if(f==1)

{

fp2=fopen("1.txt","r");

fp1=fopen("vaccine.txt","w");

while(fread(&s,sizeof(student),1,fp2))

{

fwrite(&s,sizeof(student),1,fp1);

}

fclose(fp1);

fclose(fp2);

}

else

{

printf("Record not found\n");

}

}

void total\_no\_of\_dose1()

{

student s;

int n=0;

FILE \*fp;

fp=fopen("vaccine.txt","r");

while(fread(&s,sizeof(student),1,fp))

{

if(s.d1=='y' || s.d1=='Y')

{

n=n+1;

}

}

printf("Total no of people took 1st dose : %d",n);

}

void total\_no\_of\_dose2()

{

student s;

int n=0;

FILE \*fp;

fp=fopen("vaccine.txt","r");

while(fread(&s,sizeof(student),1,fp))

{

if(s.d2=='y' || s.d2=='Y')

{

n=n+1;

}

}

printf("Total no of people took 2nd dose : %d",n);

}

void deleterecord()

{

student s;

FILE \*fp1,\*fp2;

int f;

char no[7];

printf("Enter the roll number to be deleted: ");

scanf("%s",&no);

fp1=fopen("vaccine.txt","r");

fp2=fopen("1.txt","w");

while(fread(&s,sizeof(student),1,fp1))

{

if(strcmp(s.roll,no)==0)

{

f=1;

}

else

{

fwrite(&s,sizeof(student),1,fp2);

}

}

fclose(fp1);

fclose(fp2);

if(f==1)

{

fp2=fopen("1.txt","r");

fp1=fopen("vaccine.txt","w");

while(fread(&s,sizeof(student),1,fp2))

{

fwrite(&s,sizeof(student),1,fp1);

}

fclose(fp1);

fclose(fp2);

}

else

{

printf("Record not found\n");

}

deletepassword(no);

}

void display()

{

student s;

FILE \*fp1;

fp1=fopen("vaccine.txt","r");

printf("\tROLL NUMBER\tNAME\t\tCOURSE\t\tGENDER\t\tVACCINE NAME\t\tDATE OF BIRTH\tAGE\tDOSE-1\t\tDOSE-2\t\tAADHAR NUMBER\tPHONE NUMBER\n");

while(fread(&s,sizeof(student),1,fp1))

{

printf("\t%-15s\t%-15s\t%-15s\t%-15c\t%-15s\t\t%-15s\t%d\t%-15s\t%-15s\t%-15s\t%-15s\n\n",s.roll,s.name,s.course,s.gender,s.vacc\_name,s.dob,s.age,s.d1date,s.d2date,s.aadhar,s.phone);

}

fclose(fp1);

}

int main()

{

system("color 0");

int choice\_admin,choice\_user,choice\_login,chlo;

char usern[7],passn[4];

printf("\t\t\t\t\t\t----------WELCOME----------\n");

printf("\t\t\t\t\t\tVACCINATION MANAGEMENT SYSTEM");

g1:

printf("\n1.Login As Admin");

printf("\n2.Login As User");

printf("\nEnter your choice:");

scanf("%d",&choice\_login);

if(choice\_login==1)

{

printf("\nEnter the username:\t\t");

scanf("%s",usern);

printf("Enter the password:\t\t");

passinput(passn);

system("cls");

if(strcmp("admin",usern)==0 && strcmp("hod",passn)==0)

{

printf("\nLogin successful");

printf("\n\n");

do

{

printf("\n");

printf("1.Create the Username and Password\n");

printf("2.Add Username and Password\n");

printf("3.Delete the record\n");

printf("4.Display all the username and password\n");

printf("5.Total no of people vaccinated\n");

printf("6.Display all the records\n");

printf("7.Exit to login page\n");

printf("8.Exit from program\n");

printf("\n");

printf("Enter the choice:");

scanf("%d",&choice\_admin);

printf("\n");

if(choice\_admin==1)

{

system("cls");

createpassword();

}

if(choice\_admin==2)

{

system("cls");

addpassword();

}

if(choice\_admin==3)

{

system("cls");

deleterecord();

}

if(choice\_admin==4)

{

system("cls");

displaypassword();

}

if(choice\_admin==5)

{

system("cls");

total\_no\_of\_dose1();

printf("\n");

total\_no\_of\_dose2();

printf("\n");

}

if(choice\_admin==6)

{

system("cls");

display();

}

if(choice\_admin==7)

{

system("cls");

goto g1;

}

}

while(choice\_admin!=8);

}

else

{

printf("Invalid Username or Password");

Beep(800,400);

}

}

if(choice\_login==2)

{

printf("\nEnter the username:\t\t");

scanf("%s",usern);

printf("Enter the password:\t\t");

passinput(passn);

system("cls");

FILE \*lp;

lp=fopen("Login.txt","r");

struct user u2;

while(fread(&u2,sizeof(struct user),1,lp))

{

if(strcmp(u2.username,usern)==0 && strcmp(u2.password,passn)==0)

{

chlo=1;

}

}

if(chlo==1)

{

printf("Login Successful");

printf("\n\n");

do

{

printf("\n");

printf("1.Add new information\n");

printf("2.Edit the information\n");

printf("3.View information\n");

printf("4.Exit to login page\n");

printf("\n");

printf("Enter the choice:");

scanf("%d",&choice\_user);

if(choice\_user==1)

{

system("cls");

create(usern);

}

if(choice\_user==2)

{

system("cls");

edit(usern);

}

if(choice\_user==3)

{

system("cls");

view(usern);

}

if(choice\_user==4)

{

system("cls");

goto g1;

}

}

while(choice\_user!=0);

}

else

{

printf("Invalid Username or Password");

Beep(800,400);

}

}

}