#include<stdio.h>

#include<string.h>

#include<stdlib.h>

#include<math.h>

#define Employee struct emp

//sohanuzzaman\_soad

void add(FILE \* fp); //to add to list

FILE \* del(FILE \* fp);//to delete from list

void modify(FILE \* fp);//to modify a record

void displayList(FILE \* fp);//display whole list

void searchRecord(FILE \*fp);//find a particular record

void printChar(char ch,int n);//printing a character ch n times

void printHead();

//sohanuzzaman\_soad

struct emp

{

int id;

char name[100];

char desgn[10];

float sal;

char jdate[8];

char gender[10];

char branch[50];

char psaddr[200];

char prtaddr[200];

char phone[15];

char mail[20];

};

//sohanuzzaman\_soad

int main()

{

FILE \* fp;

Employee e;

int option;

char another;

if((fp=fopen("employeeInfo.txt","rb+"))==NULL) //sohanuzzaman\_soad

{

if((fp=fopen("employeeInfo.txt","wb+"))==NULL)

{

printf("can't open file");

return 0;

}

}

char username[10],password[10]; //sohanuzzaman\_soad

printHead();

welcome();

printHead();

printf("\n\t\t\t\t Login Screen");

printf("\n\t\t\t Enter Your Credential");

printf("\n\n\n\t\tUsername: ");

scanf("%s",username);

printf("\n\t\tPassword: ");

int i;

i=0;

do

{

password[i] = getch();

if(password[i] == 13 )//sohanuzzaman\_soad

{

break;

}

else if(password[i]==8 && i>0)

{

printf("%c%c%c",8,32,8);

i--;

}

else

{

printf("\*");

i++;

}

}while(password[i]!=13);

password[i] = '\0';

if(((strcasecmp(username,"admin"))==0)&&((strcasecmp(password,"pass")==0)))

{

while(1)

{

printHead();

printf("\n\t\t\t\tMain Menu");

printf("\n\n\n");//sohanuzzaman\_soad

printf("\n\n\t\t\t1. Add Employee");

printf("\n\n\t\t\t2. Delete Employee");

printf("\n\n\t\t\t3. Modify Employee");

printf("\n\n\t\t\t4. Display Employee List");

printf("\n\n\t\t\t5. Search Record");

printf("\n\n\t\t\t6. Display Basic Info");

printf("\n\n\t\t\t7. Display Basic Contact Info");

printf("\n\n\t\t\t8. List of Male Employee");

printf("\n\n\t\t\t9. List of Female Employee");

printf("\n\n\t\t\t10. List of Employee From Dhaka");

printf("\n\n\t\t\t11. List of Employee From Others District");

printf("\n\n\t\t\t12. List of Employee of Main Branch");

printf("\n\n\t\t\t13. List of Employee of Others Branch");

printf("\n\n\t\t\t0. EXIT");

printf("\n\n\t\tEnter Your Option :--> ");

scanf("%d",&option);

//sohanuzzaman\_soad

switch(option)

{

case 0: return 1;

break;

case 1: add(fp);

break;

case 2: fp=del(fp);

break;

case 3: modify(fp);

break;

case 4: displayList(fp);

break;

case 5: searchRecord(fp);

break;

case 6: displaybasic(fp);

break;//sohanuzzaman\_soad

case 7: basiccontact(fp);

break;

case 8: maleemp(fp);

break;

case 9: femaleemp(fp);

break;

case 10: frmdhaka(fp);

break;

case 11: frmors(fp);

break;

case 12: mainbr(fp);

break;

case 13: otherbr(fp);

break;

default: printf("\n\t\tYou Pressed wrong key");

printf("\n\t\tProgram terminated");

getch();

exit(0);

}//sohanuzzaman\_soad

}

}

else {

printf("\n\t\tLogin Failed");

}

return 1;

}

//====Welcome Screen=====

void welcome()

{

printf("\n\n\n\n\n\t\t[ [ [ WELCOME TO OUR EMPLOYEE MANAGEMENT SYSTEM ] ] ]\n\n\n\n\n\n\n\t");

system("pause");

}

//----printing character ch at n times ------

void printChar(char ch,int n)

{

while(n--)//sohanuzzaman\_soad

{

putchar(ch);

}

}

//-----Printing Head Line of the program -----

void printHead()

{ system("cls");

printf("\t");

printChar('=',65);

printf("\n\t");

printChar('=',16);

printf("[EMPLOYEE] [MANAGEMENT] [SYSTEM]");

printChar('=',16);

printf("\n\t");

printChar('=',65);

}

//sohanuzzaman\_soad

// ==========ADDING NEW RECORD==========================

void add(FILE \* fp)

{

printHead();

printf("\n\t\t\t\Add Employee");

char another='y';

Employee e;

fseek(fp,0,SEEK\_END);

while(another=='y'||another=='Y')

{

printf("\n\n\t\tEnter ID number: ");

scanf("%d",&e.id);

//sohanuzzaman\_soad

printf("\n\n\t\tEnter Full Name of Employee: ");

fflush(stdin);

fgets(e.name,100,stdin); //fgets takes an extra \n character as input

e.name[strlen(e.name)-1]='\0';

printf("\n\n\t\tEnter Designation: ");

fflush(stdin);

fgets(e.desgn,10,stdin); //fgets takes an extra \n character as input

e.desgn[strlen(e.desgn)-1]='\0';

printf("\n\n\t\tEnter Gender: ");

fflush(stdin);

fgets(e.gender,10,stdin); //fgets takes an extra \n character as input

e.gender[strlen(e.gender)-1]='\0';

printf("\n\n\t\tEnter Branch: ");

fflush(stdin);

fgets(e.branch,50,stdin);

e.branch[strlen(e.branch)-1]='\0';

printf("\n\n\t\tEnter Salary: ");

scanf("%f",&e.sal);

printf("\n\n\t\tEnter Present Address: ");

fflush(stdin);

fgets(e.psaddr,200,stdin);

e.psaddr[strlen(e.psaddr)-1]='\0';

printf("\n\n\t\tEnter Permanant Address: ");

fflush(stdin);//sohanuzzaman\_soad

fgets(e.prtaddr,200,stdin);

e.prtaddr[strlen(e.prtaddr)-1]='\0';

printf("\n\n\t\tEnter Phone: ");

fflush(stdin);

fgets(e.phone,50,stdin);

e.phone[strlen(e.phone)-1]='\0';

printf("\n\n\t\tEnter E-mail: ");

fflush(stdin);

fgets(e.mail,20,stdin);

e.mail[strlen(e.mail)-1]='\0';

fwrite(&e,sizeof(e),1,fp);

printf("\n\n\t\tWant to enter another employee info (Y/N)\t");

fflush(stdin);

another=getchar();

}//sohanuzzaman\_soad

}

//===================DELETING A RECORD FROM LIST ============

FILE \* del(FILE \* fp)

{

printHead();

printf("\n\t\t\t\Delete Employee");

Employee e;

int flag=0,tempid,siz=sizeof(e);

FILE \*ft;

if((ft=fopen("temp.txt","wb+"))==NULL)//sohanuzzaman\_soad

{

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

system("pause");

return fp;

}

printf("\n\n\tEnter ID number of Employee to Delete the Record");

printf("\n\n\t\t\tID No. : ");

scanf("%d",&tempid);

rewind(fp);

while((fread(&e,siz,1,fp))==1)

{//sohanuzzaman\_soad

if(e.id==tempid)

{ flag=1;

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

printf("\n\n\t\t%s\n\n\t\t%s\n\n\t\t%d\n\t",e.name,e.branch,e.id);

continue;

}

fwrite(&e,siz,1,ft);

}

fclose(fp);

fclose(ft);

remove("employeeInfo.txt");

rename("temp.txt","employeeInfo.txt");

if((fp=fopen("employeeInfo.txt","rb+"))==NULL)//sohanuzzaman\_soad

{

printf("ERROR");

return NULL;

}

if(flag==0) printf("\n\n\t\t!!!! ERROR RECORD NOT FOUND \n\t");

printChar('-',65);

printf("\n\t");

system("pause");

return fp;

}

//sohanuzzaman\_soad

//===========MODIFY A RECORD ===========================

void modify(FILE \* fp)

{

printHead();

printf("\n\t\t\t\Modify Employee");

Employee e;

int i,flag=0,tempid,siz=sizeof(e);

float sal;

printf("\n\n\tEnter ID Number of Employee to Modify the Record : ");

scanf("%d",&tempid);

rewind(fp);

while((fread(&e,siz,1,fp))==1)

{

if(e.id==tempid)

{flag=1;//sohanuzzaman\_soad

break;

}

}

if(flag==1)

{

fseek(fp,-siz,SEEK\_CUR);

printf("\n\n\t\tRecord Found");

printf("\n\n\t\tEnter New Data for the Record");

printf("\n\n\t\tEnter ID number: ");

scanf("%d",&e.id);

printf("\n\n\t\tEnter Full Name of Employee: ");

fflush(stdin);

fgets(e.name,100,stdin); //fgets takes an extra \n character as input

e.name[strlen(e.name)-1]='\0';//sohanuzzaman\_soad

printf("\n\n\t\tEnter Designation: ");

fflush(stdin);

fgets(e.desgn,10,stdin); //fgets takes an extra \n character as input

e.desgn[strlen(e.desgn)-1]='\0';

printf("\n\n\t\tEnter Gender: ");

fflush(stdin);

fgets(e.gender,10,stdin); //fgets takes an extra \n character as input

e.gender[strlen(e.gender)-1]='\0';

printf("\n\n\t\tEnter Branch: ");

fflush(stdin);

fgets(e.branch,50,stdin);//sohanuzzaman\_soad

e.branch[strlen(e.branch)-1]='\0';

printf("\n\n\t\tEnter Salary: ");

scanf("%f",&e.sal);

printf("\n\n\t\tEnter Present Address: ");

fflush(stdin);

fgets(e.psaddr,200,stdin);

e.psaddr[strlen(e.psaddr)-1]='\0';

printf("\n\n\t\tEnter Permanant Address: ");

fflush(stdin);

fgets(e.prtaddr,200,stdin);//sohanuzzaman\_soad

e.prtaddr[strlen(e.prtaddr)-1]='\0';

printf("\n\n\t\tEnter Phone: ");

fflush(stdin);

fgets(e.phone,50,stdin);

e.phone[strlen(e.phone)-1]='\0';

printf("\n\n\t\tEnter E-mail: ");

fflush(stdin);

fgets(e.mail,20,stdin);

e.mail[strlen(e.mail)-1]='\0';

fwrite(&e,sizeof(e),1,fp);//sohanuzzaman\_soad

}

else printf("\n\n\t!!!! ERROR !!!! RECORD NOT FOUND");

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

system("pause");

}

//====================DISPLAY THE LIST =================

void displayList(FILE \* fp)

{ printHead();

printf("\n\t\t\t\List of Employees");

Employee e;

int i,siz=sizeof(e);

rewind(fp);

while((fread(&e,siz,1,fp))==1)

{

printf("\n\n\t\tID : %d",e.id);//sohanuzzaman\_soad

printf("\n\n\t\tNAME : %s",e.name);

printf("\n\n\t\tDESIGNATION : %s",e.desgn);

printf("\n\n\t\tGENDER : %s",e.gender);

printf("\n\n\t\tBRANCH : %s",e.branch);

printf("\n\n\t\tSALARY : %.2f",e.sal);

printf("\n\n\t\tPRESENT ADDRESS : %s",e.psaddr);

printf("\n\n\t\tPERMANANT ADDRESS : %s",e.prtaddr);

printf("\n\n\t\tPHONE : %s",e.phone);

printf("\n\n\t\tE-MAIL : %s\n\n\t",e.mail);

printChar('=',65);

}

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

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

system("pause");

}

//================SEARCH EMPLOYEE==

void searchRecord(FILE \*fp)//sohanuzzaman\_soad

{printHead();

printf("\n\t\t\t\Search Employee");

int tempid,flag,siz,i;

Employee e;

char another='y';

siz=sizeof(e);

while(another=='y'||another=='Y')

{

printf("\n\n\tEnter ID Number of Employee to search the record : ");

scanf("%d",&tempid);

rewind(fp);//sohanuzzaman\_soad

while((fread(&e,siz,1,fp))==1)

{

if(e.id==tempid)

{flag=1;

break;

}

}

if(flag==1)

{

printf("\n\t\tNAME : %s",e.name);

printf("\n\n\t\tID : %d",e.id);

printf("\n\n\t\tDESIGNATION : %s",e.desgn);

printf("\n\n\t\tBRANCH : %s",e.branch);//sohanuzzaman\_soad

printf("\n\n\t\tSALARY: %.2f",e.sal);

printf("\n\n\t\tPRESENT ADDRESS : %s",e.psaddr);

printf("\n\n\t\tPERMANANT ADDRESS : %s",e.prtaddr);

printf("\n\n\t\tPHONE : %s",e.phone);

printf("\n\n\t\tE-MAIL : %s",e.mail);

printChar('=',65);

}

else printf("\n\n\t\t!!!! ERROR RECORD NOT FOUND !!!!");

printf("\n\n\t\tWant to enter another search (Y/N)");

fflush(stdin);//sohanuzzaman\_soad

another=getchar();

}

}

//========================LIST OF MALE EMPLOYEE==

void maleemp(FILE \* fp)

{

printHead();

printf("\n\t\t\t\List of Male Employee");

Employee e;

int i,siz=sizeof(e);

rewind(fp);//sohanuzzaman\_soad

while((fread(&e,siz,1,fp))==1)

{

if((strcmp(e.gender,"Male")==0)||(strcmp(e.gender,"male")==0))

{

//sohanuzzaman\_soad

printf("\n\n\t\tID : %d",e.id);

printf("\n\n\t\tNAME : %s",e.name);

printf("\n\n\t\tDESIGNATION : %s",e.desgn);

printf("\n\n\t\tPHONE : %s",e.phone);

printChar('-',65);

}

}

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

printChar('\*',65);

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

system("pause");

}

//========================LIST OF FEMALE EMPLOYEE==

void femaleemp(FILE \* fp)

{

printHead();

printf("\n\t\t\t\List of Female Employee");

Employee e;

int i,siz=sizeof(e);

rewind(fp);

while((fread(&e,siz,1,fp))==1)

{

if((strcmp(e.gender,"Female")==0)||(strcmp(e.gender,"female")==0))

{

printf("\n\n\t\tID : %d",e.id);

printf("\n\n\t\tNAME : %s",e.name);

printf("\n\n\t\tDESIGNATION : %s",e.desgn);

printf("\n\n\t\tPHONE : %s",e.phone);

printChar('-',65);//sohanuzzaman\_soad

}

}

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

printChar('\*',65);

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

system("pause");

}

//========================LIST OF EMPLOYEE FROM DHAKA====

void frmdhaka(FILE \* fp)

{

printHead();

printf("\n\t\t\t\List of Employee From Dhaka");//sohanuzzaman\_soad

Employee e;

int i,siz=sizeof(e);

rewind(fp);

while((fread(&e,siz,1,fp))==1)

{

if((strstr(e.prtaddr,"Dhaka")==0)||(strstr(e.prtaddr,"dhaka")==0)||(strstr(e.prtaddr,"DHAKA")==0))

{

printf("\n\n\t\tID : %d",e.id);

printf("\n\n\t\tNAME : %s",e.name);

printf("\n\n\t\tDESIGNATION : %s",e.desgn);

printf("\n\n\t\tPHONE : %s",e.phone);

printf("\n\n\t\tE-MAIL : %s",e.mail);

printChar('=',65);

}

}//sohanuzzaman\_soad

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

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

system("pause");

}

//========================LIST OF EMPLOYEE FROM ORS DIST====

void frmors(FILE \* fp)

{

printHead();

printf("\n\t\t\t\List of Employee From Others District");

Employee e;

int i,siz=sizeof(e);

rewind(fp);

while((fread(&e,siz,1,fp))==1)

{

if((strstr(e.prtaddr,"Dhaka")==1)&&(strstr(e.prtaddr,"dhaka")==1)&&(strstr(e.prtaddr,"DHAKA")==1))

{

printf("\n\n\t\tID : %d",e.id);

printf("\n\n\t\tNAME : %s",e.name);

printf("\n\n\t\tDESIGNATION : %s",e.desgn);

printf("\n\n\t\tPHONE : %s",e.phone);

printf("\n\n\t\tE-MAIL : %s",e.mail);

printChar('=',65);

}

}

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

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

system("pause");

}

//==============DISPLAY BASIC INFO LIST==

void displaybasic(FILE \* fp)

{ printHead();//sohanuzzaman\_soad

printf("\n\t\t\t\Display Basic Information");

Employee e;

int i,siz=sizeof(e);

rewind(fp);

while((fread(&e,siz,1,fp))==1)

{

printf("\n\n\t\tID : %d",e.id);

printf("\n\n\t\tNAME : %s",e.name);

printf("\n\n\t\tDESIGNATION : %s",e.desgn);

printf("\n\n\t\tGENDER : %s",e.gender);

printf("\n\n\t\tBRANCH : %s",e.branch);

printf("\n\n\t\tPHONE : %s",e.phone);

printf("\n\n\t\tE-MAIL : %s\n\n\t",e.mail);

printChar('=',65);

}

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

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

system("pause");

}

//========BASIC CONTACT INFO LIST====

void basiccontact(FILE \* fp)

{ printHead();

printf("\n\t\t\t\Basic Contact Information");

Employee e;

int i,siz=sizeof(e);

rewind(fp);

while((fread(&e,siz,1,fp))==1)

{

printf("\n\n\t\tID : %d",e.id);

printf("\n\n\t\tNAME : %s",e.name);

printf("\n\n\t\tDESIGNATION : %s",e.desgn);

printf("\n\n\t\tPHONE : %s",e.phone);

printf("\n\n\t\tE-MAIL : %s\n\n\t",e.mail);

printChar('=',65);

}

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

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

system("pause");

}

//========================LIST OF EMPLOYEE OF MAIN BRANCH====

void mainbr(FILE \* fp)

{

printHead();

printf("\n\t\t\t\List of Employee of Main Branch");

Employee e;

int i,siz=sizeof(e);

rewind(fp);

while((fread(&e,siz,1,fp))==1)//sohanuzzaman\_soad

{

if((strcmp(e.branch,"Main")==0)||(strcmp(e.prtaddr,"main")==0)||(strcmp(e.prtaddr,"MAIN")==0))

{

printf("\n\n\t\tID : %d",e.id);

printf("\n\n\t\tNAME : %s",e.name);

printf("\n\n\t\tDESIGNATION : %s",e.desgn);//sohanuzzaman\_soad

printf("\n\n\t\tPHONE : %s",e.phone);

printf("\n\n\t\tE-MAIL : %s\n\t",e.mail);

printChar('=',65);

}

}

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

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

system("pause");

}

//========================LIST OF EMPLOYEE OF OTHRES BRANCH====

void otherbr(FILE \* fp)

{

printHead();

printf("\n\t\t\t\List of Employee of Other Branch");//sohanuzzaman\_soad

Employee e;

int i,siz=sizeof(e);

rewind(fp);

while((fread(&e,siz,1,fp))==1)

{

if((strcmp(e.branch,"Main")!=0)&&(strcmp(e.prtaddr,"main")!=0)&&(strcmp(e.prtaddr,"MAIN")!=0))

{

printf("\n\n\t\tID : %d",e.id);

printf("\n\n\t\tNAME : %s",e.name);//sohanuzzaman\_soad

printf("\n\n\t\tDESIGNATION : %s",e.desgn);

printf("\n\n\t\tPHONE : %s",e.phone);

printf("\n\n\t\tE-MAIL : %s\n\n\t",e.mail);

printChar('=',65);

}

}

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

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

system("pause");

}