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16 pages, 1184 words

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Software Development Fundamentals -2



Minor Project on:
Hostel Management System

Submitted to:
Miss. Aditi Sharma



Submitted by:

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Synopsys of Project

CODE

```
//including header files
#include <stdio.h>
#include <stdlib.h>
#include <string.h>

//defining global variables
int i,j,main_exit;

//declaring functions
void menu();
void new_entry();
void edit();
void view_list();
void erase();
void see();
void sorter();

//defining structures
struct date{
    int month,day,year;
};
struct {

    char name[60];
    int age;
    char city[60];
    char mail_id[30];
    char room_no[8];
    char father_name[60];
    int father_phone;
    int phone;
    char hostel_name[6];
    char roll_no[10];
    struct date dob;
} add,upd,check,rem,sort;

//

```

```

//main function
int main()
{

    menu();
    return 0;
}

//menu function
void menu()
{
    system("CLS");
    int choice;
    printf("\n\n\t\tHOSTEL MANAGEMENT SYSTEM");
    printf("\n\n\n\t\t\xB2\xB2\xB2\xB2\xB2\xB2\xB2 WELCOME TO THE
MAIN MENU \xB2\xB2\xB2\xB2\xB2\xB2\xB2");
    printf("\n\n\t\t1  Enter new Student's data\n\t\t2  Update information of
existing account\n\t\t3  Check the details of existing account\n\t\t4  View
all Students of a particlar Hostel\n\t\t5  Removing existing account\n\t\t6
View all students list\n\t\t7  Exit\n\n\n\n\n\t\tEnter your choice:");
    scanf("%d",&choice);

    switch(choice)
    {

        case 1:new_entry();
        break;
        case 2:edit();
        break;
        case 3:see();
        break;
        case 4:sorter();
        break;
        case 5:erase();
        break;
        case 6:view_list();
        break;
        default:menu();
    }
}

```

```

//-----
//function to display all students of a hostel
void sorter()
{
    system("CLS");
    int choice,test=0;

    printf("Enter year choice:\n\n\t1. BH-1 \n\t2. BH-2 \n\t3. BH-3 \n\t4. GH-1 \n\n");
    scanf("%d",&choice);

    FILE *fp, *hostel;
    switch(choice)
    {
        case 1: hostel=fopen("BH-1.dat","a+");break;
        case 2: hostel=fopen("BH-2.dat","a+");break;
        case 3: hostel=fopen("BH-3.dat","a+");break;
        case 4: hostel=fopen("GH-1.dat","a+");break;
        default: sorter();
    }
    while(fscanf(hostel,"%s\n",check.roll_no)!=EOF)
    {
        fp=fopen("record.dat","r");
        while(fscanf(fp,"%s %s %d/%d/%d %d %s %d %s %s %d %s %s\n",sort.roll_no, sort.name, &sort.dob.month, &sort.dob.day, &sort.dob.year, &sort.age, sort.city, &sort.phone, sort.mail_id, sort.father_name, &sort.father_phone, sort.room_no, sort.hostel_name)!=EOF)
        {
            if(strcmp(check.roll_no,sort.roll_no)==0)
            {
                if(test==0)
                {
                    printf("\n\t\tFollowing is the list of requested students:");
                    printf("\n\tROLL NO.\tNAME\tROOM NO.\n");
                }
                printf("\n\t%8s\t %8s\t %s", sort.roll_no, sort.room_no, sort.name);
                test++;
            }
        }
    }
}

```

```

    }
}

fclose(fp);
[0]▶ if (test==0)
    printf("\nNO RECORDS!!\n");

sort_list_invalid:
[0]▶ printf("\n\nEnter 1 to go to the main menu and 0 to exit:");
scanf("%d",&main_exit);

[0]▶ if (main_exit==1)
    menu();
[0]▶ else if(main_exit==0)
    printf("invalid choice\n");
else
{
[0]▶     printf("\nInvalid!\a");
[0]▶     goto sort_list_invalid;
}

}

//-----
//new entry function
void new_entry()
{
    system("CLS");
    int choice;
    FILE *ptr,*hostel;

    ptr=fopen("record.dat","a+");
    roll_no:

    [0]▶ printf("\t\t\xB2\xB2\xB2 ADD STUDENTS DATA \xB2\xB2\xB2\xB2");
    [0]▶ printf("\n\nEnter your roll number:");
    scanf("%s",check.roll_no);
    while(fscanf(ptr,"%s %s %d/%d/%d %d %s %d %s %s %d %s %s\n",
add.roll_no, add.name, &add.dob.month, &add.dob.day, &add.dob.year,

```



```

&add.age, add.city, &add.phone, add.mail_id, add.father_name,
&add.father_phone, add.room_no, add.hostel_name)!=EOF)
{
    if (strcmp(check.roll_no,add.[0]roll_no)==0)
        {printf("Students roll no. already in use!");
        goto roll_no;
        }
}

strcpy(add.roll_no,check.roll_no);
printf("\nEnter the name:");
scanf("%s",add.name);
printf("\n[0]Enter the date of birth(mm/dd/yyyy):");
scanf("%d/%d/%d",&add.dob.month,&add.dob.day,&add.dob.year);
printf("\nEnter the age:");
scanf("%d",&add.age);
printf("\nEnter the city:");
scanf("%s",add.city);
printf("\n[0]Enter the phone number: ");
scanf("%d",&add.phone);
printf("\n[0]Enter your email id :");
scanf("%s",add.mail_id);
printf("\n[0]Enter your Father's name:");
scanf("%s",add.father_name);
printf("\n[0]Enter your Father's phone no.:");
scanf("%d",&add.father_phone);
printf("\n[0]Enter your room no.:");
scanf("%s",add.room_no);
printf("\n[0]Enter your hostel name from BH-1, BH-2, BH-3, GH-1 :");
scanf("%s",add.hostel_name);
fprintf(ptr,"%s %s %d/%d/%d %d %s %d %s %s %d %s %s\n",
add.roll_no, add.name, add.dob.month, add.dob.day, add.dob.year, add.age,
add.city, add.phone, add.mail_id, add.father_name, add.father_phone,
add.room_no, add.hostel_name);

[0]//adding student roll no. to hostels' list
if(strcmp(add.hostel_name,"BH-1")==0)
{
    hostel=fopen("BH-1.dat","a+");
    fprintf(hostel, "%s\n", add.roll_no);
    [0]fclose(hostel);
}

```

```

    }
    else if(strcmp(add.hostel_name,"BH-2")==0)
    {
        hostel=fopen("BH-2.dat","a+");
        fprintf(hostel, "%s\n", add.roll_no);
        fclose(hostel);
    }
    else if(strcmp(add.hostel_name,"BH-3")==0)
    {
        hostel=fopen("BH-3.dat","a+");
        fprintf(hostel, "%s\n", add.roll_no);
        fclose(hostel);
    }
    else if(strcmp(add.hostel_name,"GH-1")==0)
    {
        hostel=fopen("GH-1.dat","a+");
        fprintf(hostel, "%s\n", add.roll_no);
        fclose(hostel);
    }

    //-----

fclose(ptr);
printf("\nStudent added successfully!");
add_invalid:
printf("\n\n\t\tEnter 1 to go to the main menu and 0 to exit:");
scanf("%d",&main_exit);

if (main_exit==1)

    menu();
else if(main_exit==0)
    printf("invalid choice\n");

else
{
    printf("\nInvalid!\a");
    goto add_invalid;
}
}

```

```

//-----
//nsbfunction to view all students
void view_list()
{
    system("CLS");
    FILE *view;
    view=fopen("record.dat","r");
    int test=0;

    printf("\nROLL NO.\tNAME\t\t\tcity\t\t\tPHONE\n");

    while(fscanf(view,"%s %s %d/%d/%d %d %s %d %s %s %d %s %s\n",
add.roll_no, add.name, &add.dob.month, &add.dob.day, &add.dob.year,
&add.age, add.city, &add.phone, add.mail_id, add.father_name,
&add.father_phone, add.room_no, add.hostel_name)!=EOF)
    {
        printf("\n%8s\t %10s\t\t\t %10s\t\t\t %d",add.roll_no,add.name,add.city,add.phone);
        test++;
    }
    fclose(view);

    if (test==0)
    {
        printf("\nNO RECORDS!!\n");}

view_list_invalid:
printf("\n\nEnter 1 to go to the main menu and 0 to exit:");
scanf("%d",&main_exit);

    if (main_exit==1)
        menu();
    else if(main_exit==0)
        printf("invalid choice\n");
    else
    {
        printf("\nInvalid!\a");
        goto view_list_invalid;
    }
}

```

```

//-----
//function to view all data of 1 student
void see()
{
    system("CLS");
    FILE *ptr;
    int test=0;
    int choice;
    ptr=fopen("record.dat","r");
    printf("Do you want to check by\n1.Roll no\n2.Name\nEnter your choice:");
    scanf("%d",&choice);
    if (choice==1)
    { printf("\nEnter the roll number:");
      scanf("%s",check.roll_no);

      while (fscanf(ptr,"%s %s %d/%d/%d %d %s %d %s %s %d %s %s\n",add.roll_no, add.name, &add.dob.month, &add.dob.day, &add.dob.year, &add.age, add.city, &add.phone, add.mail_id, add.father_name, &add.father_phone, add.room_no, add.hostel_name)!=EOF)
      {
          if(strcmp(add.roll_no,check.roll_no)==0)
          {
              test=1;

              printf("\nROLL NO.:%s\nName:%s \nDOB:%d/%d/%d \nAge:%d \n city:%s \nPhone number:%d \nE-Mail id:%s \nFather's name:%s \n Father's Phone No.:%d \nRoom No:%s \nHostel:%s \n",add.roll_no, add.name, add.dob.month, add.dob.day, add.dob.year, add.age, add.city, add.phone, add.mail_id, add.father_name, add.father_phone, add.room_no, add.hostel_name);
          }
      }
    }
    else if (choice==2)
    { printf("\nEnter the name:");
      scanf("%s",check.name);
      while (fscanf(ptr,"%s %s %d/%d/%d %d %s %d %s %s %d %s %s\n",add.roll_no, add.name, &add.dob.month, &add.dob.day, &add.dob.year,

```

```

&add.age, add.city, &add.phone, add.mail_id, add.father_name,
&add.father_phone, add.room_no, add.hostel_name)!=EOF)
{
    if(strcmp(add.name,check[0].name)==0)
    {
        test=1;
        printf("\nROLL NO.:%s\nName:%s \nDOB:%d/%d/%d \nAge:%d \
ncity:%s \nPhone number:%d \nE-Mail id:%s \nFather's name:%s \n Father's
Phone No.:%d \nRoom No:%s \nHostel:%s \n",add.roll_no, add.name,
add.dob.month, add.dob.day, add.dob.year, add.age, add.city, add.phone,
add.mail_id, add.father_name, add.father_phone, add.room_no,
add.hostel_name);
    }
}

fclose(ptr);
if(test!=1)
    printf("\nRecord not found!!\a\a\a");
see_invalid:
printf("\nEnter 0 to try again,1 to return to main menu and 2 to exit:");
scanf("%d",&main_exit);
if (main_exit==1)
    menu();
[0]▶ else if (main_exit==2)
[0]▶     printf("invalid choice\n");
    else if(main_exit==0)
        erase();
    else
    {
        printf("\nInvalid!\a");
        goto see_invalid;
    }
}

//-----
//function to update student info
void edit()
{
    system("CLS");

```

```

int choice,test=0;
FILE *old,*newrec;
old=fopen("record.dat","r");
newrec=fopen("new.dat","w");

printf("\nEnter the roll no. of the student whose info you want to change:");
scanf("%s",upd.roll_no);
while(fscanf(old,"%s %s %d/%d/%d %d %s %d %s %s %d %s %s\n",add.roll_no, add.name, &add.dob.month, &add.dob.day, &add.dob.year,
&add.age, add.city, &add.phone, add.mail_id, add.father_name,
&add.father_phone, add.room_no, add.hostel_name)!=EOF)

{
    if (strcmp(add.roll_no,upd.roll_no)==0)
    {
        test=1;
        printf("\nWhich information do you want to change?\n1.Room no.\n2.Phone\n\nEnter your choice(1 for room no. and 2 for phone );");
        scanf("%d",&choice);

        if(choice==1)
        {printf("\nEnter the new room no.:");
            scanf("%s",upd.room_no);
            fprintf(newrec,"%s %s %d/%d/%d %d %s %d %s %s %d %s %s\n",add.roll_no, add.name, add.dob.month, add.dob.day, add.dob.year, add.age,
add.city, add.phone, add.mail_id, add.father_name, add.father_phone,
upd.room_no, add.hostel_name);
            printf("Changes saved!");
        }
        else if(choice==2)
        {
            printf("\nEnter the new phone number:");
            scanf("%d",&upd.phone);
            fprintf(newrec,"%s %s %d/%d/%d %d %s %d %s %s %d %s %s\n",add.roll_no, add.name, add.dob.month, add.dob.day, add.dob.year, add.age,
add.city, upd.phone, add.mail_id, add.father_name, add.father_phone,
add.room_no, add.hostel_name);
            printf("Changes saved!");
        }

    }
else

```

```

        fprintf(newrec,"%s %s %d/%d/%d %d %s %d %s %s %d %s %s\n",add.roll_no, add.name, add.dob.month, add.dob.day, add.dob.year, add.age, add.city, add.phone, add.mail_id, add.father_name, add.father_phone, add.room_no, add.hostel_name);
    }
    fclose(old);
    fclose(newrec);
    remove("record.dat");
    rename("new.dat", "record.dat");

    if(test!=1)
        printf("\nRecord not found!!\a\a\a");

    edit_invalid:
        printf("\nEnter 0 to try again,1 to return to main menu and 2 to exit:");
        scanf("%d",&main_exit);
        if (main_exit==1)
            menu();
        else if (main_exit==2)
            printf("invalid choice\n");
[0] ▶ else if(main_exit==0)
            edit();
        else
        {
[0] ▶         printf("\nInvalid!\a");
            goto edit_invalid;
        }

    }

//-----
//cpfunction to delete records
void erase()
{
    system("CLS");
    FILE *old,*newrec;
    int test=0;
    old=fopen("record.dat","r");
    newrec=fopen("new.dat","w");

```

```

printf("[0]Enter the roll no. of student whose data you want to delete:");
scanf("%s",rem.roll_no);
while (fscanf(old,"%s %s %d/%d/%d %d %s %d %s %s %d %s %s\n",
add.roll_no, add.name, &add.dob.month, &add.dob.day, &add.dob.year,
&add.age, add.city, &add.phone, add.mail_id, add.father_name,
&add.father_phone, add.room_no, add.hostel_name)!=EOF)
{
    if(add.roll_no!=rem.roll_no)
        fprintf(newrec,"%s %s %d/%d/%d %d %s %d %s %s %d %s %s\n",
add.roll_no, add.name, add.dob.month, add.dob.day, add.dob.year, add.age,
add.city, add.phone, add.mail_id, add.father_name, add.father_phone,
add.room_no, add.hostel_name);

    else
    {test++;
    printf("\nRecord deleted successfully!\n");
    }
}
fclose(old);
fclose(newrec);
remove("record.dat");
rename("new.dat", "record.dat");
if(test==0)
    printf("\nRecord not found!!\a\a\a");
erase_invalid:
printf("\nEnter 0 to try again,1 to return to main menu and 2 to exit:");
scanf("%d",&main_exit);
if (main_exit==1)
    menu();
else if (main_exit==2)
    printf("invalid choice\n");
else if(main_exit==0)
    erase();
else
{
    printf("\nInvalid!\a");
    goto erase_invalid;
}
}

//*****END OF CODE*****

```


OUTPUT