



**Name :** Nishat Nayala Priyanka

**Id no :** 201-35-2991

**Section :** A

**Department :** B. Sc. in Software Engineering(SWE)

**Course Title :** Software Development Capstone Project

**Course Code :** SE133

**Course Teacher :** Farjana Sadia

**Project Topic :** Hospital Management System

## **Code of the Project**

```
#include<stdio.h>
```

```
#include<conio.h>
```

```
int option;
```

```
char username[20],password[20];
```

```

void title();
void showWelcomeMessage();
void hospitalInformation();
void chooseCreateAccountOrLogIn();
void createAccount();
void logIn();
void mainMenu();
void showMenuOfDoctor();
void showMenuOfStaff();
void logOut();
int main()
{
    showWelcomeMessage();
    hospitalInformation();
    chooseCreateAccountOrLogIn();
    createAccount();
    logIn();
}
void title()
{
    printf("\t-----\n");
    printf("\t\t\t\t\tBangladesh Hospital\n");
}

```

```
printf("\t-----");  
-----");  
  
}  
  
void showWelcomeMessage()  
{  
  
    printf("\n\n\n\n\n\n\n\n\n\t\t\t*****  
*****");  
  
        printf("\n\t\t\t*\t\t\t\t\t\t*");  
        printf("\n\t\t\t*\t\t\t WELCOME TO \t\t\t*");  
        printf("\n\t\t\t*\t BANGLADESH HOSPITAL MANAGEMENT  
SYSTEM \t\t*");  
        printf("\n\t\t\t*\t\t\t\t\t\t*");  
  
    printf("\n\t\t\t\t*****  
*****");  
  
        printf("\n\n\n\n\n\n\t\t\t\tPress any key to continue.....");  
        getch();  
  
}  
  
void hospitalInformation()  
{  
    system("cls");  
    title();  
    printf("\n\n\n\t\tAddress : Dhaka , Bangladesh");
```

```

printf("\n\n\t\tHour : 24 hours");
printf("\n\n\t\tContact Number : 01765486593 ");
printf("\n\n\t\tList of Services Offered by Bangladesh Hospital :");
printf("\n\n\t\t# Ward Facilities");
printf("\n\n\t\t# Nursing");
printf("\n\n\t\t# Out patient Department( OPD)");
printf("\n\n\t\t# Intensive Care Unit(ICU)");
printf("\n\n\t\t# Pharmacy and Diagnosis");
printf("\n\n\t\t# Operation Facilities");
printf("\n\n\t\t\t\t\t.....!!!!!!Your Health Is Our
Responsibility!!!!!!.....");

printf("\n\n\t\t\t\t\t\t\tPress any key to continue.....");
getch();
}

void chooseCreateAccountOrLogIn()
{
    A:
    system("cls");
    title();

    printf("\n\n\n\n .....!!!!!!If have an account then log in the system or
create an account with username and password!!!!!!..... ");

    printf("\n\n\n\n\t\t\t\t\t 1)Create an account\t\t 2)Log in");
    printf("\n\n\n\n\t\t\t\t\t Enter your choice : ");
    scanf("%d",&option);

```

```
switch(option)
{
    case 1 :
    {
        createAccount();
        getch();
    }
    break;
    case 2 :
    {
        logIn();
        getch();
    }
    break;
    default :
    {
        printf("\n\n\t\t\t\t .....!!!!Invalid Entry.....!!!!");
        printf("\n\n\n\t\t\t\t\tPress any key to continue.....");
        getch();
        goto A;
    }
    break;
}
```

```

}

void createAccount()
{
    system("cls");
    title();
    FILE *create_account;
    create_account=fopen("AccountInformation.txt","a");
    printf("\n\n\n\t\t\t .....!!!!!!Enter username and password to create an account!!!!!!..... ");
    printf("\n\n\n\t\t\tUsrename :");
    scanf("%s",&username);
    printf("\n\n\t\t\tPassword :");
    scanf("%s",&password);
    fprintf(create_account," %s %s \n",username,password);
    fclose(create_account);
    printf("\n\n\t\t\t .....!!!!!!Successfully Created an Account!!!!!!..... ");
    printf("\n\n\n\t\t\t\t\tPress any key to continue.....");
    getch();
    chooseCreateAccountOrLogIn();
}

void logIn()
{
    A:

```

```

system("cls");
title();
/* FILE *create_account;

create_account=fopen("AccountInformation.txt","r");
int count;

char username_login[20],password_login[20];

printf("\n\n\n\t\t .....!!!!!!You can log in the system with your
username and password!!!!!!..... ");

printf("\n\n\n\t\t\tUsrename :");
scanf("%s",&username_login);
printf("\n\n\t\t\tPassword :");
scanf("%s",&password_login);

while(fscanf(create_account,"%s
%s\n",&username,&password)!=EOF)
{

if(strcmp(username_login,username)==0&&strcmp(password_login,pas
sword)==0)
{
    count=1;
}
}

fclose(create_account);

if(count==1)

```

```

{
    printf("\n\n\t\t\t.....!!!!Log in Successfully.....!!!!");
    printf("\n\n\n\t\t\t\t\tPress any key to continue.....");
    getch();
    mainMenu();

}
else
{
    printf("\n\n\t\t\t\t\t.....!!!!Invalid username or password.....!!!!");
    printf("\n\n\n\t\t\t\t\tPress any key to continue.....");
    getch();
    goto A;
}*/
printf("\n\n\t\t\t\t\t.....!!!!Log in Successfully!!!!.....");
printf("\n\n\n\t\t\t\t\tPress any key to continue.....");
getch();
mainMenu();
}
void mainMenu()
{
    A:
    system("cls");

```



```

title();
printf("\n\n\n\t\t\t\t\tAre you a.....");
printf("\n\n\n\n\t\t\t\t\t1)Doctor\t\t2)Staff ");
printf("\n\n\n\n\t\t\t\t\tEnter your choice : ");
scanf("%d",&option);
switch(option)
{
    case 1 :
    {
        showMenuOfDoctor();
        getch();
    }
    break;
    case 2 :
    {
        showMenuOfStaff();
        getch();
    }
    break;
    default :
    {
        printf("\n\n\t\t\t\t\t .....!!!!Invalid Entry.....!!!!");
        printf("\n\n\n\t\t\t\t\tPress any key to continue.....");
    }
}

```

```

        getch();
        goto A;
    }
    break;
}
}

void showMenuOfDoctor()
{
    A:
    system("cls");
    title();
    printf("\n\n\t\t\t 1)Add medical record of the patient");
    printf("\n\n\t\t\t 2)List of medical record of the patient");
    printf("\n\n\t\t\t 3)Schedule operation date for the patient");
    printf("\n\n\t\t\t 4)List of the operation details of the patient");
    printf("\n\n\t\t\t 5)Log out");
    printf("\n\n\n\n\t\t\t Enter your choice : ");
    scanf("%d",&option);
    switch(option)
    {
        case 5 :
        {
            logOut();

```

```

        getch();
    }
    break;
    default :
    {
        printf("\n\n\t\t\t\t .....!!!!Invalid Entry.....!!!!");
        printf("\n\n\n\t\t\t\t Press any key to continue.....");
        getch();
        goto A;
    }
    break;
}

void showMenuOfStaff()
{
    A:
    system("cls");
    title();
    printf("\n\n\n\n\n\t\t 1)Add information of the patient");
    printf("\n\n\t\t 2)List of the patient's information");
    printf("\n\n\t\t 3)Search the information of the patient ");
    printf("\n\n\t\t 4)Edit the information of the patient");
    printf("\n\n\t\t 5>Delete the information of the patient");

```

```

printf("\n\n\t\t\t 6)Add payment details of the patient");
printf("\n\n\t\t\t 7)payment details list of the patient");
printf("\n\n\t\t\t 8)Log out");
printf("\n\n\n\n\t\t\t Enter your choice : ");
scanf("%d",&option);
switch(option)
{
    case 8 :
    {
        logOut();
        getch();
    }
    break;
    default :
    {
        printf("\n\n\t\t\t\t .....!!!!Invalid Entry.....!!!!");
        printf("\n\n\n\t\t\t\t Press any key to continue.....");
        getch();
        goto A;
    }
    break;
}

```

```
}  
void logOut()  
{  
    system("cls");  
    title();  
    printf("\n\n\n\n\n\n\n\n\n\n\n\t\t\t.....!!!!!!!Thank You For  
Visiting!!!!!!!..... ");  
    getch();  
    system("cls");  
    exit(0);  
}
```