Smt. Chandaben Mohanbhai Patel Institute of Computer Applications (CMPICA)

Faculty of Computer Science and Applications

Case Study

B.Sc. IT – Semester III

CA408: Object Oriented Programming Using C++

Title of Case Study

Login Form Application

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C++ Program Code

```cpp
#include<iostream>
//#include<string.h>
#include<fstream>
#include <windows.h>
#include <stdlib.h>
//#define i cin
//#define o cout
int l=0;
int i=0;
void logo();
int k=0;
int r=0;
int m=0;
using namespace std;
//class MENU
//{
//      public:
//      int user_req;
//      MENU()
//      {
//              cout<<"Enter User Name: ";
//              cin>>user_req;
//              //string l="LOGIN";
//
//              if(user_req==1)
//              {
```

```cpp
//                    cout << "\t--------------------" << endl;
//                    cout << "\t LOGIN PAGE        " << endl;
//                    cout << "\t--------------------" << endl;
//            }
//          else if (user_req==2)
//          {
//                    cout << "\t--------------------" << endl;
//                    cout << "\t REG. PAGE         " << endl;
//                    cout << "\t--------------------" << endl;
//          }
//          else if (user_req==3)
//          {
//                    cout << "\t--------------------" << endl;
//                    cout << "\t PASSWORD PAGE      " << endl;
//                    cout << "\t--------------------" << endl;
//          }
//      }
//
//};

class reg
{
      public:
            string name;
            string u_name;
            string u_mobile;
            string u_password;
```

```cpp
void set_reg()
{
        fstream ritik;
        fstream sahil;
        fstream diti;
        fstream un;
        fstream mo;
        ritik.open("First_file.txt",ios::app | ios::out);
        sahil.open("user_name.txt",ios::app | ios::out);
        diti.open("pass_word.txt",ios::app | ios::out);
        un.open("name.txt",ios::app | ios::out);
        mo.open("number.txt",ios::app | ios::out);
        cout << "===> Enter Name: ";
        cin >> name;
        cout << "===> USERNAME: ";
        cin >> u_name;
        cout << "===> MOBILE NO: ";
        cin >> u_mobile;
        cout << "===> PASSWORD: ";
        cin >> u_password;
        ritik<<name<<endl;
        un<<name<<endl;
        ritik<<u_name<<endl;
        sahil<<u_name<<endl;
        ritik<<u_mobile<<endl;
        mo<<u_mobile<<endl;
        ritik<<u_password<<endl;
```

```cpp
                        diti<<u_password<<endl;
//                      if(name!=0   &&   username!=0   &&   mobile!=0   &&
password!=0)
//                      {
                                cout << "----------------------------------" << endl;
                                cout << "Your data is successfully submitted..." << endl;
                                cout << "----------------------------------" << endl;
//                      }
                }
};

class login
{
        public:
                string username;
                string password;
                void set_login()
                {
                        cout << "===> USERNAME: " << endl;
                        cin >> username;
                        cout << "===> PASSWORD: " << endl;
                        cin >> password;

                        //if (username!=0 && password!=0)
                        //{
//                              if(u_name==username && u_password==password)
//                              {
//                                      cout << "----------------------------------" << endl;
```

```cpp
//                    cout << "Your login process successfully done." << endl;
//                    cout << "----------------------------------" << endl;
//              }
//         else
//         {
//                    cout << "Plase enter a valid USERNAME and PASSWORD....." << endl;
//                    cout << "..........................................." << endl;
//         }
//}
}
check()
{
        fstream ritik;
        fstream sahil;
        fstream diti;
        sahil.open("user_name.txt");
        diti.open("pass_word.txt");
        string uname;
        string pass;
        string line;
        while(getline(sahil,uname))
        {
                if(uname==username)
                {
                        k=1;
                        break;
                }
```

```cpp
                else
                {
                        l++;
                }
        }
        //cout<<"Value of l is: "<<l<<endl;
        if(k==1)
        {
                while(getline(diti,pass) && i<=l)
                {
                        if(i==l)
                        {
//                              cout<<pass<<endl;
//                              cout<<password<<endl;
                                if(pass==password)
                                {
                                        k=1;
                                        cout<<"Loggedin succefull"<<endl;
                                        r=3;
                                        break;
                                }
                                i++;

                        }
                        else
                        {
                                i++;
```

```cpp
                    }
                }
            }
            if(r==0)
            {
                    cout<<"Failed to login"<<endl;
            }
        }
};


class for_pass
{
    public:
            string yname;
            string pass;
            string phone;
            string uname;
            void set_pass()
            {
                    cout<<"\t\t*******verification********"<<endl;
                    cout << "===> Enter your Name:";
                    cin >> yname;
                    cout<<"Enter your User Name: ";
                    cin>>uname;
                    cout<<"Enter your Mobile Number: ";
                    cin>>phone;
//                  if (n==u_name)
```

```cpp
//              {
//                      cout << "Your Password Is " << u_password << endl;
//              }
//              else
//              {
//                      cout << "Can't find your username..." << endl;
//              }
        }
        verification()
        {
                string line;
                fstream ritik;
                fstream sahil;
                fstream diti;
                fstream yn;
                fstream mo;
                ritik.open("First_file.txt");
                sahil.open("user_name.txt");
                diti.open("pass_word.txt");
                yn.open("name.txt");
                mo.open("number.txt");
                while(!sahil.eof())
                {
                        getline(sahil,line);
                        if(line==uname)
                        {
                                k=1;
```

```cpp
//                    cout<<line<<endl;
                      break;
              }
              else
              {
                      l++;
              }
      }
      i=0;
      if(k==1)
      {
              while(!yn.eof() && i<=l)
              {
//                    cout<<yname<<endl;
                      getline(yn,line);
                      if(i==l)
                      {

                              if(line==yname)
                              {
//      cout<<line<<" and "<<yname;
                                      k=1;
                                      r=3;
                                      break;
                              }
                              i++;
                      }
```

```cpp
                else
                {
                    k=0;
                    i++;
                }
            }
        }
        i==0;
        if(r==3)
        {
            while(!mo.eof() && i<=l)
            {
                getline(mo,line);
                if(i==l)
                {
                    //      cout<<line<<" and "<<phone;
                    if(line==phone)
                    {
                        //          cout<<line<<" and "<<phone;
                        k=1;
                        m=4;
                        break;
                    }
                }
                else
                {
                    k=0;
```

```
                    i++;
                }
        }
}
i=0;
if(r==3 && m==4)
{
        while(!diti.eof() && i<=l)
        {
                getline(diti,line);
                if(i==l)
                {
                        cout<<"Your Password is: "<<line<<endl;
                        break;
                }
                else
                {
                        i++;
                }
        }


}
else
{
        cout<<"Invalid Deatils"<<endl;
}
```

```cpp
		}
};

int main()
{
//		system("color 4");
		system("Color 4E");
		logo();
		system("pause");
		system("cls");
		int u_req;


		cout << "\t -------------------------------------------" << endl;
		cout << "\t -------------------------------------------" << endl;
		cout << "\t                                           " << endl;
		cout << "\t          YOU'RE WELCOME ANY TIME.       " << endl;
		cout << "\t                                           " << endl;
		cout << "\t -------------------------------------------" << endl;
		cout << "\t -------------------------------------------" << endl;


		cout << "\t =.=.  >>Press 1 For LOGIN:         " << endl;
		cout << "\t =.=.  >>Press 2 For REG.:          " << endl;
		cout << "\t =.=.  >>Press 3 For FORGOTT PASSWORD: " << endl;
		cout << "\t =.=.  >>Press 4 For EXIT:          " << endl;
		cout<<"\n\tEnter your choice: ";
		cin >> u_req;
		login l;
```

```cpp
        reg rg;
        for_pass fp;
        switch(u_req)
        {
                case 1:
                        l.set_login();
                        l.check();
                        system("pause");
                        break;
                case 2:
                        rg.set_reg();
                        system("pause");
                        break;
                case 3:
                        fp.set_pass();
                        fp.verification();
                        break;
                default:
                        cout<<"Enter valid choice"<<endl;
        }

}
void logo()
{
        cout<<"\t--------    --------"<<endl;
        cout<<"\t--------    --------"<<endl;
```

```cpp
        cout<<"\t     ---    --- "<<endl;

        cout<<"\t     ---    --- "<<endl;

        cout<<"\t     ---    --- "<<endl;

        cout<<"\t     ---    --- "<<endl;

        cout<<"\t     ---    ---"<<endl;

        cout<<"\t    ---    --------"<<endl;

        cout<<"\t    ---    --------"<<endl;

        cout<<"\t --- 	          ---"<<endl;

        cout<<"\t    ---          ---"<<endl;

        cout<<"\t     ---          ---"<<endl;

        cout<<"\t       ---  --------"<<endl;

        cout<<"\t          --- --------"<<endl;
}
```

Program Output


```
        - - - - - - - -        - - - - - - - -
        - - - - - - - -        - - - - - - -
              - - -        - - -
              - - -        - - -
              - - -        - - -
              - - -        - - -
              - - -        - - -
               - - -        - - - - - - - -
              - - -        - - - - - - - -
            - - -                    - - -
              - - -                    - - -
                - - -                - - -
                  - - -      - - - - - - -
                    - - - - - - - - -
Press any key to continue . . . _
```



```
        ------------------------------------------
        ------------------------------------------


                 YOU'RE WELCOME ANY TIME.


        ------------------------------------------
        ------------------------------------------
        =.=.  >>Press 1 For LOGIN:
        =.=.  >>Press 2 For REG.:
        =.=.  >>Press 3 For FORGOTT PASSWORD:
        =.=.  >>Press 4 For EXIT:

        Enter your choice:
```

```
                    --------------------------------------------
                    --------------------------------------------


                            YOU'RE WELCOME ANY TIME.


                    --------------------------------------------
                    --------------------------------------------
                =.=.  >>Press 1 For LOGIN:
                =.=.  >>Press 2 For REG.:
                =.=.  >>Press 3 For FORGOTT PASSWORD:
                =.=.  >>Press 4 For EXIT:


                    Enter your choice: 1
===> USERNAME:
ritikpatel
===> PASSWORD:
1234
Loggedin succefull
Press any key to continue . . .
```

```
                    --------------------------------------------
                    --------------------------------------------


                            YOU'RE WELCOME ANY TIME.


                    --------------------------------------------
                    --------------------------------------------
                =.=.  >>Press 1 For LOGIN:
                =.=.  >>Press 2 For REG.:
                =.=.  >>Press 3 For FORGOTT PASSWORD:
                =.=.  >>Press 4 For EXIT:


                    Enter your choice: 1
===> USERNAME:
savli
===> PASSWORD:
0000
Loggedin succefull
Press any key to continue . . .
```

```
                    --------------------------------------------
                    --------------------------------------------


                            YOU'RE WELCOME ANY TIME.


                    --------------------------------------------
                    --------------------------------------------
                =.=.  >>Press 1 For LOGIN:
                =.=.  >>Press 2 For REG.:
                =.=.  >>Press 3 For FORGOTT PASSWORD:
                =.=.  >>Press 4 For EXIT:


                    Enter your choice: 1
===> USERNAME:
ritikpatel
===> PASSWORD:
0000
Failed to login
Press any key to continue . . .


--------------------------------
Process exited after 11.19 seconds with return value 0
Press any key to continue . . .
```

```
 C:\Users\HP\Documents\C++ program\c++ case study.exe                        —    □    X

           --------------------------------------------
           --------------------------------------------

                        YOU'RE WELCOME ANY TIME.


           --------------------------------------------
           --------------------------------------------
           =.=.   >>Press 1 For LOGIN:
           =.=.   >>Press 2 For REG.:
           =.=.   >>Press 3 For FORGOTT PASSWORD:
           =.=.   >>Press 4 For EXIT:

           Enter your choice: 2
===> Enter Name: Diti
===> USERNAME: ditz
===> MOBILE NO: 942170
===> PASSWORD: abcd
-----------------------------------
Your data is successfully submitted...
-----------------------------------
Press any key to continue . . . ■
```

```
 C:\Users\HP\Documents\C++ program\c++ case study.exe                        —    □    X

            --------------------------------------------
            --------------------------------------------

                        YOU'RE WELCOME ANY TIME.


            --------------------------------------------
            --------------------------------------------
            =.=.   >>Press 1 For LOGIN:
            =.=.   >>Press 2 For REG.:
            =.=.   >>Press 3 For FORGOTT PASSWORD:
            =.=.   >>Press 4 For EXIT:

            Enter your choice: 3
                  *******verification*******
===> Enter your Name:Ritik
Enter your User Name: ritikpatel
Enter your Mobile Number: 879934
Your Password is: 1234


----------------------------------
Process exited after 41.05 seconds with return value 0
Press any key to continue . . .
```

```
 C:\Users\HP\Documents\C++ program\c++ case study.exe                        —    □    X

              --------------------------------------------
              --------------------------------------------

                          YOU'RE WELCOME ANY TIME.


              --------------------------------------------
              --------------------------------------------
              =.=.   >>Press 1 For LOGIN:
              =.=.   >>Press 2 For REG.:
              =.=.   >>Press 3 For FORGOTT PASSWORD:
              =.=.   >>Press 4 For EXIT:

              Enter your choice: 3
                    *******verification*******
===> Enter your Name:Sahil
Enter your User Name: savli
Enter your Mobile Number: 702032
Your Password is: 0000


--------------------------------
Process exited after 11.3 seconds with return value 0
Press any key to continue . . . ■
```

```
        --------------------------------------------
        --------------------------------------------


                    YOU'RE WELCOME ANY TIME.


        --------------------------------------------
        --------------------------------------------
        =.=.  >>Press 1 For LOGIN:
        =.=.  >>Press 2 For REG.:
        =.=.  >>Press 3 For FORGOTT PASSWORD:
        =.=.  >>Press 4 For EXIT:

        Enter your choice: 3
                *******verification********
===> Enter your Name:Sahil
Enter your User Name: ritikpatel
Enter your Mobile Number: 702032
Invalid Deatils

---------------------------------
Process exited after 21.57 seconds with return value 0
Press any key to continue . . . ▄
```

```
        --------------------------------------------
        --------------------------------------------


                    YOU'RE WELCOME ANY TIME.


        --------------------------------------------
        --------------------------------------------
        =.=.  >>Press 1 For LOGIN:
        =.=.  >>Press 2 For REG.:
        =.=.  >>Press 3 For FORGOTT PASSWORD:
        =.=.  >>Press 4 For EXIT:

        Enter your choice: 3
                *******verification********
===> Enter your Name:Diti
Enter your User Name: savli
Enter your Mobile Number: 87993463
Invalid Deatils

---------------------------------
Process exited after 36.34 seconds with return value 0
Press any key to continue . . .
```