Program.cs

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

using CMSModelsLibrary;

namespace CMSFEConsoleApp

{

class Program

{

static void Main(string[] args)

{

ManageUser program = new ManageUser();

program.RegisterAndDisplayUser();

Console.ReadKey();

}

}

}

ManageUser.cs

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

using CMSModelsLibrary;

namespace CMSFEConsoleApp

{

class ManageUser

{

//User user = new User();

public void RegisterAndDisplayUser()

{

Console.WriteLine("Please enter user type (Patient/Doctor)");

User user;

string type = Console.ReadLine();

switch (type)

{

case "Patient":

user = new Patient();

break;

case "Doctor":

user = new Doctor();

break;

default:

Console.WriteLine("Invalid Entry. Treating as a patient");

user = new Patient();

break;

}

user.TakeDetailsFromUser(user);

user.PrintUserDetails();

}

//public void DisplayUser(User user)

//{

// user.PrintUserDetails();

//}

}

}

User.cs

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace CMSModelsLibrary

{

public class User

{

public int Id { get; set; }

public string Name { get; set; }

public int Age { get; set; }

public string Type { get; set; }

public string Remarks { get; set; }

public string Status { get; set; }

public int Experience { get; set; }

public string Speciality { get; set; }

private string password { get; set; }

public string Password

{

get

{

string masked = "XXXXXX" + password.Substring(6, 4);

return masked;

}

set

{

password = value;

}

}

public User()

{

Type = "Patient"; //by default

}

public void TakeDetailsFromUser(User user)

{

int tempInt;

TakeStandardDetail();

if (user.Type == "Patient")

{

Console.WriteLine("Pleae enter Remarks");

Remarks = Console.ReadLine();

Console.WriteLine("Pleae enter Status");

Status = Console.ReadLine();

}

else

{

Console.WriteLine("Pleae enter your Speciality");

Speciality = Console.ReadLine();

Console.WriteLine("Pleae enter year of Experience");

while (!int.TryParse(Console.ReadLine(), out tempInt))

Console.WriteLine("Please enter a number (integer) for years of Experience");

Experience = tempInt;

}

}

public void TakeStandardDetail()

{

int tempInt;

Console.WriteLine("Pleae enter the User ID");

while (!int.TryParse(Console.ReadLine(), out tempInt))

Console.WriteLine("Please enter a number (integer) for User ID");

Id = tempInt;

Console.WriteLine("Pleae enter the User Name");

Name = Console.ReadLine();

Console.WriteLine("Pleae enter the User Password");

Password = Console.ReadLine();

Console.WriteLine("Pleae enter the User Age");

while (!int.TryParse(Console.ReadLine(), out tempInt))

Console.WriteLine("Please enter a number (integer) for User Age");

Age = tempInt;

}

public virtual void PrintUserDetails()

{

Console.WriteLine("---------------------------------------");

Console.WriteLine("User ID: {0} \nUser Name: {1} \nUser Password: {2} \nUser Age: {3} \nUser Type: {4}", Id, Name, Password, Age, Type);

Console.WriteLine("---------------------------------------");

}

}

}

Patient.cs

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace CMSModelsLibrary

{

public class Patient : User

{

//public string Remarks { get; set; }

//public string Status { get; set; }

public Patient()

{

Type = "Patient";

}

public override void PrintUserDetails()

{

Console.WriteLine("---------------------------------------");

Console.WriteLine("User ID: {0} \nUser Name: {1} \nUser Password: {2} \nUser Age: {3} \nUser Type: {4}", Id, Name, Password, Age, Type);

Console.WriteLine("---------------------------------------");

Console.WriteLine("Remarks: {0} \nStatus: {1}", Remarks, Status);

Console.WriteLine("---------------------------------------");

}

}

}

Doctor.cs

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace CMSModelsLibrary

{

public class Doctor : User

{

//public string Experience { get; set; }

//public string Speciality { get; set; }

public Doctor()

{

Type = "Doctor";

}

public override void PrintUserDetails()

{

Console.WriteLine("---------------------------------------");

Console.WriteLine("User ID: {0} \nUser Name: {1} \nUser Password: {2} \nUser Age: {3} \nUser Type: {4}", Id, Name, Password, Age, Type);

Console.WriteLine("---------------------------------------");

Console.WriteLine("Years of Experience: {0} \nSpeciality: {1}", Experience, Speciality);

Console.WriteLine("---------------------------------------");

}

}

}

**Output:**



