



Project C– **Movie Management System**

Computer Science Department

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Introduction:

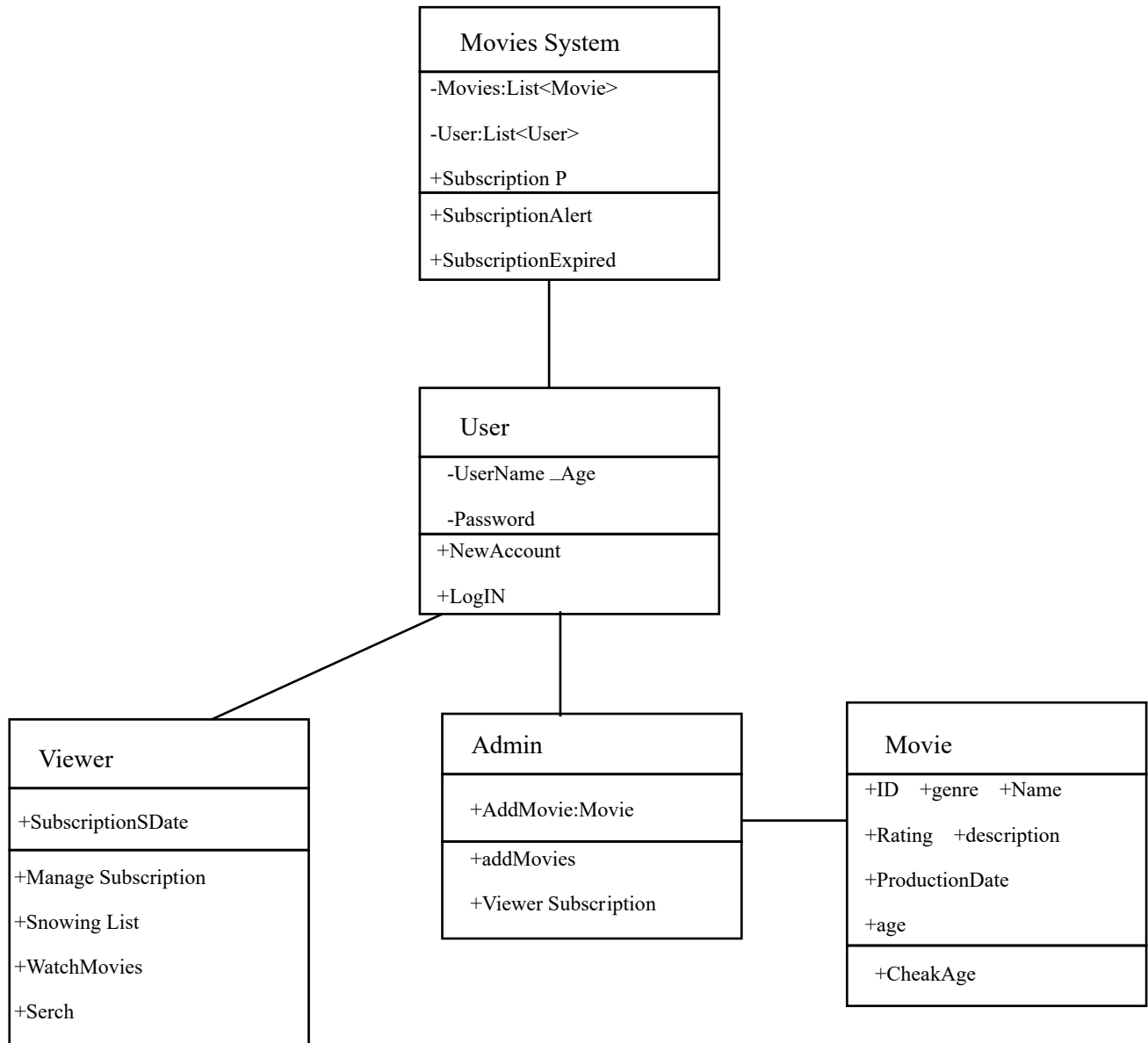
The movie system will provide facility to watch movies online. The Movie System will provide detailed information so that a customer can know about the movie and based on the information customer will watch it.

The movie management system will provide a much better experience for viewing of movies.

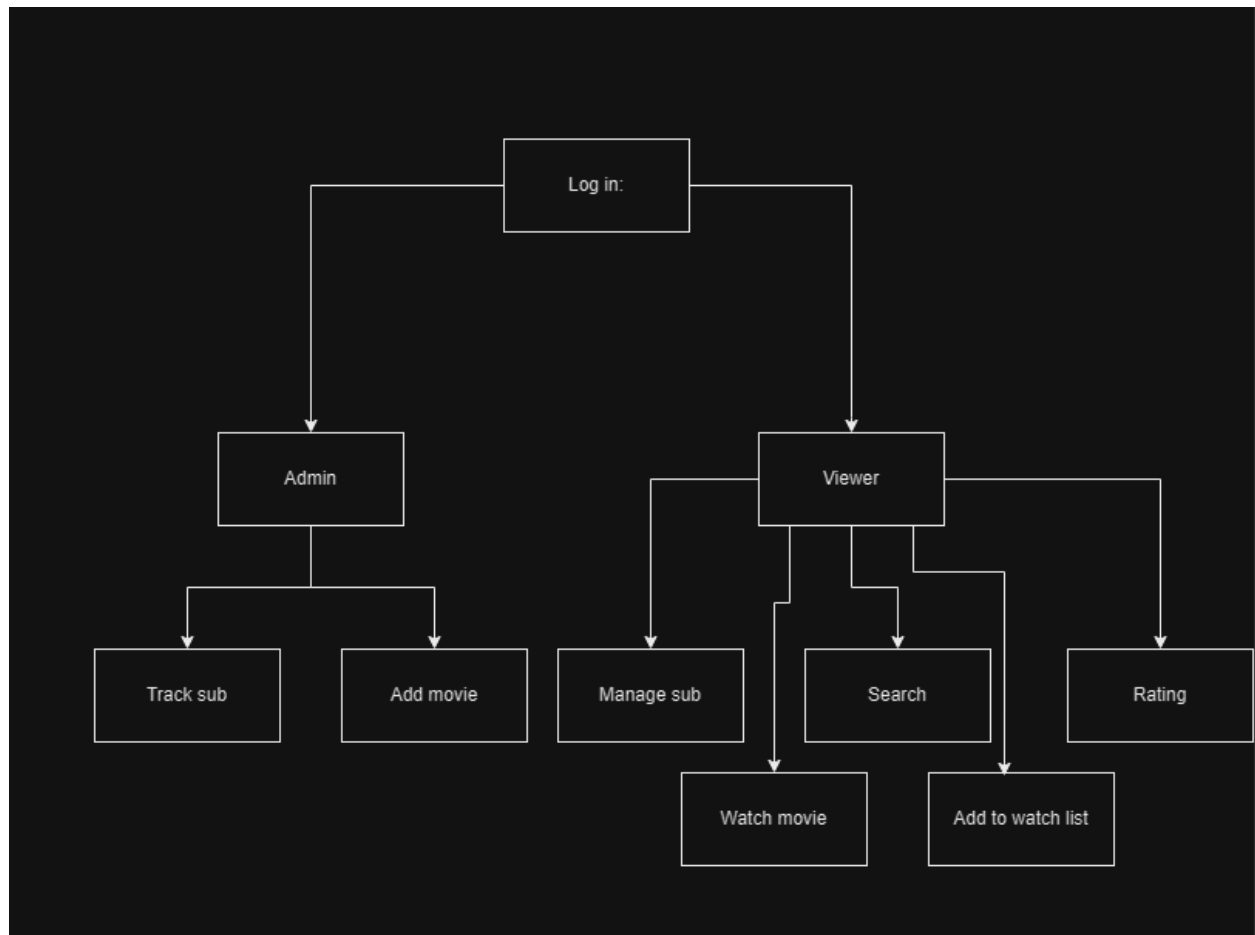
The admin plays a crucial role, with privileges to monitor upcoming subscription expirations and add new movies.

-UML class diagram:

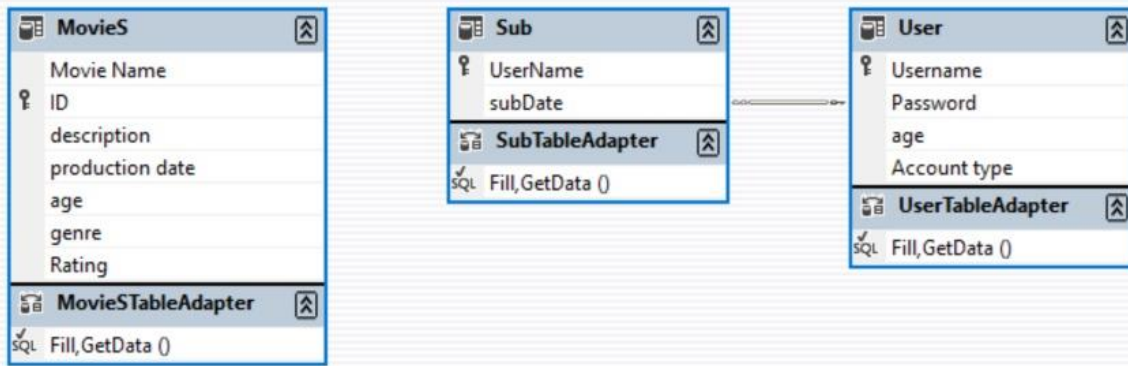
Movies System



System hierarchy:



Database schema:



Code:

User view:

```

1reference
public partial class UserView : Form
{
    1reference
    public String UserName { get; set; }
    1reference
    public String Password1 { get; set; }
    1reference
    public int Age { get; set; }
    0references
    public String AccountType { get; set; }
    2references
    public UserView()
    {
        InitializeComponent();
    }
    0references
    public UserView(String userName, String password, int age, string AT = "null")
    {
        UserName = userName;
        Password1 = password;
        Age = age;
    }
    SqlConnection sqlC = new SqlConnection(@"Data Source=DESKTOP-PDCF89L;Initial Catalog=Movies;Integrated Security=True");

    1reference
    private void LoginB_Click(object sender, EventArgs e)
    {
        String userName = UnameTB.Text;
        String password = PasswordTB.Text;
        bool I= CheckUserExistence(userName, password);
        if (I)
        {
            if (CTB.Text == "44300")
            {
                AdminView AV = new AdminView();
                AV.Show();
                Visible = false;
            }
            else
            {
                ViewerView VV = new ViewerView();
                VV.Show();
                Visible = false;
            }
        }
        else
        {
            MessageBox.Show("Wrong username or password");
        }
    }
}

```

```

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```

```

MovieSystem
MovieSystem.UserView

private const string ConnectionString = "Data Source=DESKTOP-PDCF89L;Initial Catalog=Movies;Integrated Security=True";

1 reference
public bool CheckUserExistence(string username, string password)
{
    using (SqlConnection connection = new SqlConnection(ConnectionString))
    {
        connection.Open();

        string query = "SELECT COUNT(*) FROM [User] WHERE Username = @Username AND Password = @Password";

        using (SqlCommand command = new SqlCommand(query, connection))
        {
            command.Parameters.AddWithValue("@Username", username);
            command.Parameters.AddWithValue("@Password", password);

            int count = Convert.ToInt32(command.ExecuteScalar());

            return count > 0;
        }
    }
}

1 reference
private void UserView_Load(object sender, EventArgs e)
{
}

1 reference
private void CNAB_Click(object sender, EventArgs e)
{
    CreateAcc CA = new CreateAcc();
    CA.Show();
    Visible = false;
}
}

```

CreateAcc:

```
12 namespace MovieSystem
13 {
14     6 references
15     public partial class CreateAcc : Form
16     {
17         2 references
18         public CreateAcc()
19         {
20             InitializeComponent();
21         }
22
23         1 reference
24         private void button1_Click(object sender, EventArgs e)
25         {
26             CreateAcc CA = new CreateAcc();
27             CA.SaveUser(UsernameTB.Text, PasswordTB.Text, Convert.ToInt32(ATB.Text), "Viewer");
28             CAL.Text = "Your account has been created, go back to login screen";
29         }
30
31         private const string ConnectionString = "Data Source=DESKTOP-P0CF89L;Initial Catalog=Movies;Integrated Security=True";
32
33         1 reference
34         public void SaveUser(string username, string password, int age, string AT)
35         {
36             using (SqlConnection connection = new SqlConnection(ConnectionString))
37             {
38                 connection.Open();
39
40                 string insertQuery = "INSERT INTO [User] (Username, [Password], age, \"Account type\") VALUES (@username, @password, @age, @AT)";
41
42                 using (SqlCommand command = new SqlCommand(insertQuery, connection))
43                 {
44                     command.Parameters.AddWithValue("@username", username);
45                     command.Parameters.AddWithValue("@password", password);
46                     command.Parameters.AddWithValue("@age", age);
47                     command.Parameters.AddWithValue("@AT", AT);
48
49                     int rowsAffected = command.ExecuteNonQuery();
50                 }
51             }
52         }
53     }
54 }
```

Admin view:

```
1 using System;
2 using System.Collections.Generic;
3 using System.ComponentModel;
4 using System.Data;
5 using System.Drawing;
6 using System.Linq;
7 using System.Text;
8 using System.Threading.Tasks;
9 using System.Windows.Forms;
10
11 namespace MovieSystem
12 {
13     4 references
14     public partial class AdminView : Form
15     {
16         1 reference
17         public AdminView()
18         {
19             InitializeComponent();
20         }
21
22         1 reference
23         private void button1_Click(object sender, EventArgs e)
24         {
25             AddNewMovie ANM = new AddNewMovie();
26             ANM.Show();
27             Visible = false;
28         }
29
30         1 reference
31         private void button2_Click(object sender, EventArgs e)
32         {
33             KeepTrack KT = new KeepTrack();
34             KT.Show();
35             Visible = false;
36         }
37     }
38 }
```

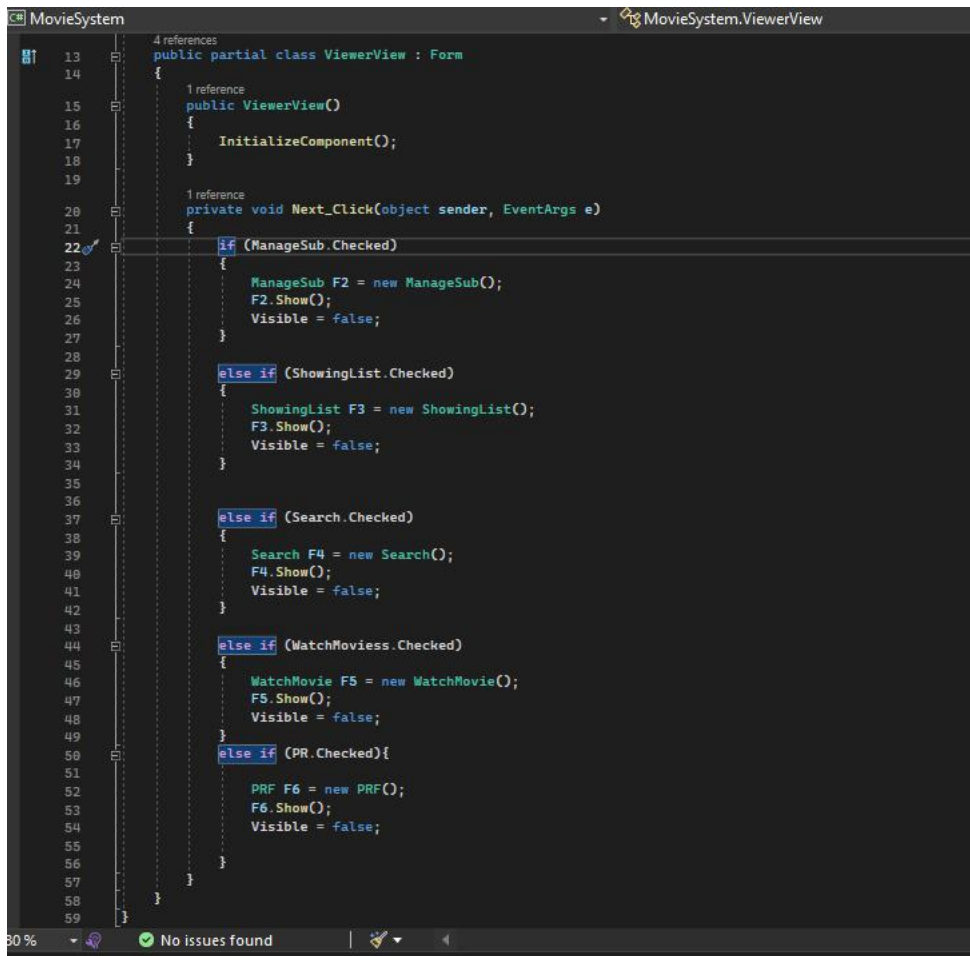

AddNewMovie:

```
MovieSystem MovieSystem.AddNewMovie button1_Click(object sender, EventArgs e)
14 public partial class AddNewMovie : Form
15 {
16     public AddNewMovie()
17     {
18         InitializeComponent();
19     }
20
21     1 reference
22     private void label7_Click(object sender, EventArgs e)
23     {
24     }
25
26     1 reference
27     private void button1_Click(object sender, EventArgs e)
28     {
29         AddNewMovie ANM = new AddNewMovie();
30         ANM.NewM(textBox1.Text, textBox2.Text, textBox3.Text, Convert.ToInt32(textBox4.Text), Convert.ToInt32(textBox5.Text), textBox6.Text, float.Parse(textBox7.Text));
31         label9.Text = "The new movie has been added";
32     }
33     private const string ConnectionString = "Data Source=DESKTOP-POCFB9L;Initial Catalog=Movies;Integrated Security=True";
34
35     1 reference
36     public void NewM(string MovieN, string ID, string Des, int PD, int age, string G, float R)
37     {
38         using (SqlConnection connection = new SqlConnection(ConnectionString))
39         {
40             connection.Open();
41
42             string insertQuery = "INSERT INTO MovieS ([Movie Name], ID, description, [production date], age, genre, Rating) VALUES (@MovieN, @ID, @Des, @PD, @age, @G, @R)";
43
44             using (SqlCommand command = new SqlCommand(insertQuery, connection))
45             {
46                 command.Parameters.AddWithValue("@MovieN", MovieN);
47                 command.Parameters.AddWithValue("@ID", ID);
48                 command.Parameters.AddWithValue("@Des", Des);
49                 command.Parameters.AddWithValue("@PD", PD);
50                 command.Parameters.AddWithValue("@age", age);
51                 command.Parameters.AddWithValue("@G", G);
52                 command.Parameters.AddWithValue("@R", R);
53
54                 int rowsAffected = command.ExecuteNonQuery();
55             }
56         }
57     }
58 }
```

KeepTrack:

```
MovieSystem MovieSystem.KeepTrack
18 public partial class KeepTrack : Form
19 {
20     1 reference
21     public KeepTrack()
22     {
23         InitializeComponent();
24     }
25
26     1 reference
27     private void button1_Click(object sender, EventArgs e)
28     {
29         List<string> Users = ReturnUsers();
30         listBox1.Items.Clear();
31         listBox1.Items.AddRange(Users.ToArray());
32     }
33     private const string ConnectionString = "Data Source=DESKTOP-POCFB9L;Initial Catalog=Movies;Integrated Security=True";
34
35     1 reference
36     public List<string> ReturnUsers()
37     {
38         using (SqlConnection connection = new SqlConnection(ConnectionString))
39         {
40             connection.Open();
41
42             string selectQuery = "SELECT Username, Subdate FROM sub";
43
44             using (SqlCommand command = new SqlCommand(selectQuery, connection))
45             {
46                 using (SqlDataReader reader = command.ExecuteReader())
47                 {
48                     List<string> UserEx = new List<string>();
49                     while (reader.Read())
50                     {
51                         string userName = reader.GetString(reader.GetOrdinal("Username"));
52                         DateTime subscriptionDate = reader.GetDateTime(reader.GetOrdinal("Subdate"));
53
54                         if (subscriptionDate.AddDays(30) == DateTime.Today.AddDays(3))
55                         {
56                             UserEx.Add(userName);
57                         }
58                         else if (subscriptionDate.AddDays(30) == DateTime.Today.AddDays(22))
59                         {
60                             UserEx.Add(userName);
61                         }
62                         else if (subscriptionDate.AddDays(30) == DateTime.Today.AddDays(11))
63                         {
64                         }
65                     }
66                 }
67             }
68         }
69     }
70 }
```


ViewerView:



```
13 public partial class ViewerView : Form
14 {
15     1 reference
16     public ViewerView()
17     {
18         InitializeComponent();
19     }
20
21     1 reference
22     private void Next_Click(object sender, EventArgs e)
23     {
24         if (ManageSub.Checked)
25         {
26             ManageSub F2 = new ManageSub();
27             F2.Show();
28             Visible = false;
29         }
30         else if (ShowingList.Checked)
31         {
32             ShowingList F3 = new ShowingList();
33             F3.Show();
34             Visible = false;
35         }
36         else if (Search.Checked)
37         {
38             Search F4 = new Search();
39             F4.Show();
40             Visible = false;
41         }
42         else if (WatchMovie.Checked)
43         {
44             WatchMovie F5 = new WatchMovie();
45             F5.Show();
46             Visible = false;
47         }
48         else if (PRF.Checked){
49             PRF F6 = new PRF();
50             F6.Show();
51             Visible = false;
52         }
53     }
54 }
55
56
57
58
59
```

ManageSub:

```

MovieSystem 4 references
public partial class ManageSub : Form
{
    1 reference
    public ManageSub()
    {
        InitializeComponent();
    }

    1 reference
    private void NextF2_Click(object sender, EventArgs e)
    {
        if (NewSub.Checked)
        {
            NewSub NS = new NewSub();
            NS.Show();
            Visible = false;
        }
        else if (ReNew.Checked)
        {
            UserView UVF = new UserView();
            string userName = UNTB.Text;
            UpdateUserSub(userName);
            Answer.Text = "Your Sub is renewed! ";
        }
        else if (CancelSub.Checked)
        {
            String userName = UNTB.Text;
            DeleteUser(userName);
            Answer.Text = "Your Sub is canceled! ";
        }
    }

    1 reference
    public static void DeleteUser(string userName)
    {
        using (SqlConnection connection = new SqlConnection(ConnectionString))
        {
            connection.Open();

            string deleteQuery = "DELETE FROM Sub1 WHERE Username = @userName";

            using (SqlCommand command = new SqlCommand(deleteQuery, connection))
            {
                command.Parameters.AddWithValue("@userName", userName);

                int rowsAffected = command.ExecuteNonQuery();
            }
        }
    }
}

```

```

MovieSystem 4 references
    command.Parameters.AddWithValue("@userName", userName);
    int rowsAffected = command.ExecuteNonQuery();
}

private const string ConnectionString = "Data Source=DESKTOP-POCF89L;Initial Catalog=Movies;Integrated Security=True";

1 reference
public static void UpdateUserSub(String userName1)
{
    using (SqlConnection connection = new SqlConnection(ConnectionString))
    {
        connection.Open();
        DateTime n = Convert.ToDateTime("11/12/2023");

        string updateQuery = "UPDATE Sub1 SET subdate = @subdate WHERE UserName = @userName";

        using (SqlCommand command = new SqlCommand(updateQuery, connection))
        {
            command.Parameters.AddWithValue("@userName", userName1);
            command.Parameters.AddWithValue("@subDate", n);

            int rowsAffected = command.ExecuteNonQuery();
        }
    }
}

1 reference
private void UNTB_TextChanged(object sender, EventArgs e)
{
}
}

```

ShowingList:

```
MovieSystem MovieSystem.Sh
1  using System;
2  using System.Collections.Generic;
3  using System.ComponentModel;
4  using System.Data;
5  using System.Drawing;
6  using System.Linq;
7  using System.Text;
8  using System.Threading.Tasks;
9  using System.Windows.Forms;
10
11 namespace MovieSystem
12 {
13     4 references
14     public partial class ShowingList : Form
15     {
16         1 reference
17         public ShowingList()
18         {
19             InitializeComponent();
20         }
21
22         1 reference
23         private void NextF3_Click(object sender, EventArgs e)
24         {
25             List<string> SHlist = new List<string>();
26             SHlist.Add(MNTB.Text);
27             SLL.Text = "The movie has been added to your list! ";
28         }
29     }
30 }
```

MovieSystem

8 references

public partial class Search : Form

{

String MovieT;

...

0 references

public Search(String movieT)

{

MovieT = movieT;

}

2 references

public Search()

{

InitializeComponent();

}

1 reference

private void SearchB_Click(object sender, EventArgs e)

{

if (FBG.Text == "Adventure")

{

List<string> moviesT = SearchbyFG("Adventure");

listBox1.Items.Clear();

listBox1.Items.AddRange(moviesT.ToArray());

}

else if (FBG.Text == "Drama")

{

List<string> moviesT = SearchbyFG("Drama");

listBox1.Items.Clear();

listBox1.Items.AddRange(moviesT.ToArray());

}

else if (FBG.Text == "Horror")

{

List<string> moviesT = SearchbyFG("Horror");

listBox1.Items.Clear();

listBox1.Items.AddRange(moviesT.ToArray());

}

else if (FBY.Text == "2023")

{

List<string> moviesY = SearchbyFY(2023);

listBox1.Items.Clear();

listBox1.Items.AddRange(moviesY.ToArray());

}

else if (FBY.Text == "2022")

{

List<string> moviesY = SearchbyFY(2022);

listBox1.Items.Clear();

listBox1.Items.AddRange(moviesY.ToArray());

}

}

}

Search: 80 % No issues found

```
MovieSystem MovieSystem.Search
68 {
69     List<string> moviesY = SearchbyFY(2020);
70     listBox1.Items.Clear();
71     listBox1.Items.AddRange(moviesY.ToArray());
72 }
73 else if (FBY.Text == "2019")
74 {
75     List<string> moviesY = SearchbyFY(2019);
76     listBox1.Items.Clear();
77     listBox1.Items.AddRange(moviesY.ToArray());
78 }
79 else if (FBY.Text == "2018")
80 {
81     List<string> moviesY = SearchbyFY(2018);
82     listBox1.Items.Clear();
83     listBox1.Items.AddRange(moviesY.ToArray());
84 }
85 else if (FBY.Text == "2017")
86 {
87     List<string> moviesY = SearchbyFY(2017);
88     listBox1.Items.Clear();
89     listBox1.Items.AddRange(moviesY.ToArray());
90 }
91 else if (FBY.Text == "2016")
92 {
93     List<string> moviesY = SearchbyFY(2016);
94     listBox1.Items.Clear();
95     listBox1.Items.AddRange(moviesY.ToArray());
96 }
97 else if (FBY.Text == "2015")
98 {
99     List<string> moviesY = SearchbyFY(2015);
100     listBox1.Items.Clear();
101     listBox1.Items.AddRange(moviesY.ToArray());
102 }
103 else if (MNTB.Text != null)
104 {
105     Search s = new Search();
106     bool M = s.SearchM(MNTB.Text);
107     if (M)
108     {
109         LR.Text = "Movie is found! ";
110     }
111     else if (!M)
112     {
113         LR.Text = "The movie is not in our database";
114     }
115 }
116 }
```

80 % No issues found

```
MovieSystem - MovieSystem.Search

120 | 1 reference
121 | public bool SearchM(string title)
122 | {
123 |     using (SqlConnection connection = new SqlConnection(connectionString))
124 |     {
125 |         connection.Open();
126 |
127 |         string selectQuery = "SELECT * FROM MovieS WHERE \"Movie Name\" = @title";
128 |
129 |         using (SqlCommand command = new SqlCommand(selectQuery, connection))
130 |         {
131 |             command.Parameters.AddWithValue("@title", title);
132 |             using (SqlDataReader reader = command.ExecuteReader())
133 |             {
134 |                 if (reader.HasRows)
135 |                 {
136 |                     return true;
137 |                 }
138 |                 else
139 |                 {
140 |                     return false;
141 |                 }
142 |             }
143 |         }
144 |     }
145 | }
146 |
147 | 3 references
148 | public List<string> SearchbyFG(string G)
149 | {
150 |     using (SqlConnection connection = new SqlConnection(connectionString))
151 |     {
152 |         connection.Open();
153 |
154 |         string selectQuery = "SELECT \"Movie Name\" FROM MovieS WHERE genre = @G";
155 |
156 |         using (SqlCommand command = new SqlCommand(selectQuery, connection))
157 |         {
158 |             command.Parameters.AddWithValue("@G", G);
159 |             using (SqlDataReader reader = command.ExecuteReader())
160 |             {
161 |                 List<string> moviesT = new List<string>();
162 |
163 |                 while (reader.Read())
164 |                 {
165 |                     string movieName = reader.GetString(reader.GetOrdinal("Movie Name"));
166 |                     moviesT.Add(movieName);
167 |                 }
168 |                 return moviesT;
169 |             }
170 |         }
171 |     }
172 | }
173 |
174 | 9 references
175 | public List<string> SearchbyFY(int Y)
176 | {
177 |     using (SqlConnection connection = new SqlConnection(connectionString))
178 |     {
179 |         connection.Open();
180 |
181 |         string selectQuery = "SELECT \"Movie Name\" FROM MovieS WHERE \"production date\" = @Y";
182 |
183 |         using (SqlCommand command = new SqlCommand(selectQuery, connection))
184 |         {
185 |             command.Parameters.AddWithValue("@Y", Y);
186 |             using (SqlDataReader reader = command.ExecuteReader())
187 |             {
188 |                 List<string> moviesY = new List<string>();
189 |
190 |                 while (reader.Read())
191 |                 {
192 |                     string movieName = reader.GetString(reader.GetOrdinal("Movie Name"));
193 |                     moviesY.Add(movieName);
194 |                 }
195 |                 return moviesY;
196 |             }
197 |         }
198 |     }
199 | }
200 |
201 |
202 |
203 |
204 |
```

WatchMovies:


```
MovieSystem
1 using System;
2 using System.Collections.Generic;
3 using System.ComponentModel;
4 using System.Data;
5 using System.Drawing;
6 using System.Linq;
7 using System.Text;
8 using System.Threading.Tasks;
9 using System.Windows.Forms;
10
11 namespace MovieSystem
12 {
13     public partial class WatchMovie : Form
14     {
15         public WatchMovie()
16         {
17             InitializeComponent();
18         }
19
20         private void StartB_Click(object sender, EventArgs e)
21         {
22             SML.Text = "The movie will start in a few seconds..";
23         }
24     }
25 }
26
```

Providing:

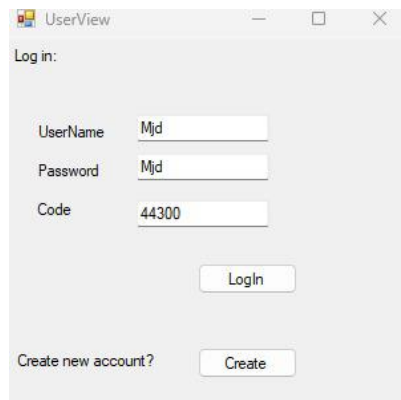
```
MovieSystem
3 using System.ComponentModel;
4 using System.Data;
5 using System.Drawing;
6 using System.Linq;
7 using System.Text;
8 using System.Threading.Tasks;
9 using System.Windows.Forms;
10
11 namespace MovieSystem
12 {
13     public partial class PRF : Form
14     {
15         public PRF()
16         {
17             InitializeComponent();
18         }
19
20         private void PRF_Load(object sender, EventArgs e)
21         {
22         }
23
24         private void button1_Click(object sender, EventArgs e)
25         {
26             label3.Text = "thank you for rating! ";
27         }
28     }
29 }
30
31
```

NewSub:

```
MovieSystem
MovieSystem.NewSub

9  using System.Threading.Tasks;
10 using System.Windows.Forms;
11
12 namespace MovieSystem
13 {
14     4 references
15     public partial class NewSub : Form
16     {
17         1 reference
18         public NewSub()
19         {
20             InitializeComponent();
21         }
22
23         1 reference
24         private void button1_Click(object sender, EventArgs e)
25         {
26             string UN = NSUNB.Text;
27             NewSubM(UN);
28             Label7.Text = "Your sub starts today! ";
29         }
30
31         private const string ConnectionString = "Data Source=DESKTOP-PDCF89L;Initial Catalog=Movies;Integrated Security=True";
32
33         1 reference
34         public void NewSubM(string username)
35         {
36             using (SqlConnection connection = new SqlConnection(ConnectionString))
37             {
38                 connection.Open();
39                 DateTime n = Convert.ToDateTime("11/12/2023");
40
41                 string insertQuery = "INSERT INTO Sub1 (Username, Subdate) VALUES (@username, @n)";
42
43                 using (SqlCommand command = new SqlCommand(insertQuery, connection))
44                 {
45                     command.Parameters.AddWithValue("@username", username);
46                     command.Parameters.AddWithValue("@n", n);
47
48                     int rowsAffected = command.ExecuteNonQuery();
49                 }
50             }
51         }
52     }
53 }
```

Output :-



The screenshot shows a window titled "UserView" with standard Windows window controls (minimize, maximize, close). Inside the window, the text "Log in:" is displayed. Below this, there are three input fields: "UserName" with the value "Mjd", "Password" with the value "Mjd", and "Code" with the value "44300". A "Login" button is positioned below the input fields. At the bottom of the window, there is a link "Create new account?" followed by a "Create" button.

UserView

Log in:

UserName Mjd

Password Mjd

Code 44300

Login

Create new account? Create

AdminView

What do you want to do?

add the details of movies

keep track of the viewers

KeepTrack

Show the users that has 3days until their sub is over:

Maher
Njd
Nora
User1

Next

AddNewMovie

Enter the details of the new movie:

Name: ROOM

ID: 1127

Description: in the world outside.

Production date: 2015

age: 13

genre: Drama

Rating: 8.1

Next

The new movie has been added

UserView

Log in:

UserName: Mohammed

Password: Mohammed

Code:

Login

Create new account? Create

ViewerView

What do you want to do?

☒ Manage your sub

☐ Add to showing list

☐ Search

☐ Watch a movie

☐ provide rating

Next

ManageSub

Enter your userName: Mohammed

How would you like to your manage sub?

☐ New sub

☒ Renew sub

☐ Cancel sub

Your Sub is renewed! Next

ManageSub

Enter your userName: Mohammed

How would you like to your manage sub?

☐ New sub

☐ Renew sub

☒ Cancel sub

Your Sub is canceled! Next

ShoingList

Which movie you want to add to your showingList?

ve Nights at Fread's

Next

The movie has been added to your list!

Search

Enter movie name:

Adventure

Filter by Production year:

Search

The movie is not in our database

Coco

Dune

Enola Holmes

Captain Marvel

Samurai Rauni

Search

Enter movie name:

Filter by genre:

2023

Search

The movie is not in our database

Five Nights at Fread's

Killers of the flower moor

Pain hustlers

A Haunting in Venice

Search

Enter movie name:

Coco

Filter by genre:

Filter by Production year:

Search

Movie is found!

Search

Enter movie name:

Movie?

Filter by genre: ▾

Filter by Production year: ▾

Search

The movie is not in our database

WatchMovie

choose a movie to start watching

The Batman

Start

The movie will start in a few seconds..

Provide rating

Enter the name of the movie:

Enter your rating:
(in numbers)

thank you for rating!

CreateAcc

userName:

Password:

Age:

Your account has been created, go back to login screen