**Song Album**

**Problem Definition**

Create and maintain music Album database.

**ER Diagram:**

Sing

Artists

Songs

User

Rates

M

**Database Design:**

Songs

Songid

Song\_Name

Date of Release

Cover

Artist\_Song

Artistid

Songid

Artists

Artistid

Artist\_Name

DOB

BIO

Userid

Songid

Rating

Song\_Rating

Userid

User\_name

Email

User

**UserInterface Design**

**Asp.net Coding.**

* Home page contain navigation
* Artist page
* Song page
* User page

**1.Home page contain navigation**

Home page code are given below with the screenshot.

**Home.aspx**

<head runat="server">

<title></title>

<link href="home.css" rel="stylesheet" type="text/css" />

</head>

<body>

<div class="jumbotron text-center">

<h1>Album Songs</h1>

</div>

<form id="form1" runat="server">

<div id = "menu">

<ul>

<li><a href="home.aspx">Home</a></li>

<li><a href="#">Top 10</a>

<ul>

<li><a href="#">Artists</a></li>

<li><a href="Songgridview.aspx">Songs</a></li>

</ul></li>

<li><a href="#">Add New</a>

<ul>

<li><a href="Artist.aspx">Artists</a></li>

<li><a href="Songs.aspx">Songs</a></li>

</ul></li>

<li><a href="rating.aspx">Rating</a></li><br /><br /><br />

</ul>

</div>

<div>

<asp:ScriptManager ID="ScriptManager1" runat="server" />

<asp:UpdatePanel ID="up1" runat="server">

<Triggers>

<asp:AsyncPostBackTrigger ControlID="Timer1" EventName="Tick" />

</Triggers>

<ContentTemplate>

<asp:Timer ID="Timer1" Interval="4000" runat="server" />

<asp:AdRotator ID="AdRotator1" runat="server" AdvertisementFile = "~/ad.xml" Height="300px" Width="300px" Target=\_top />

</ContentTemplate>

</asp:UpdatePanel>

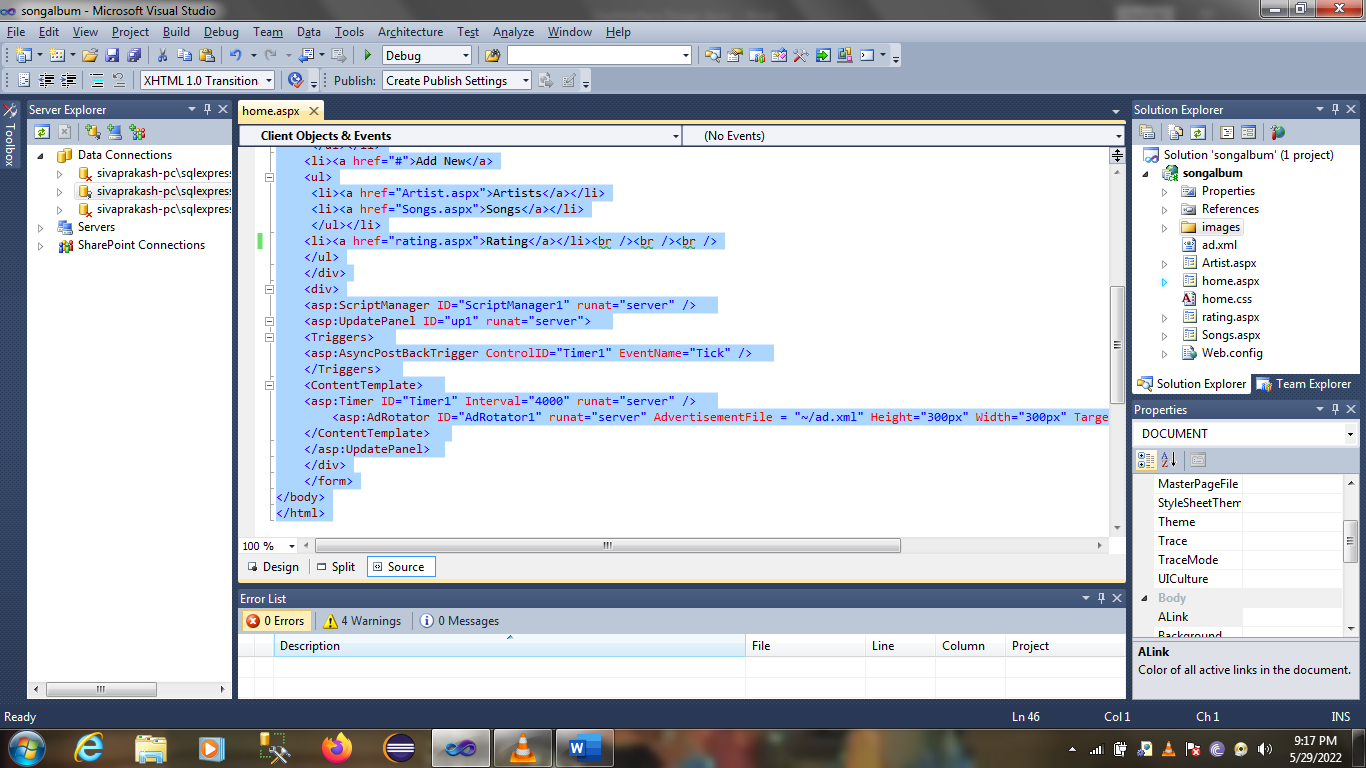
</div>

</form>

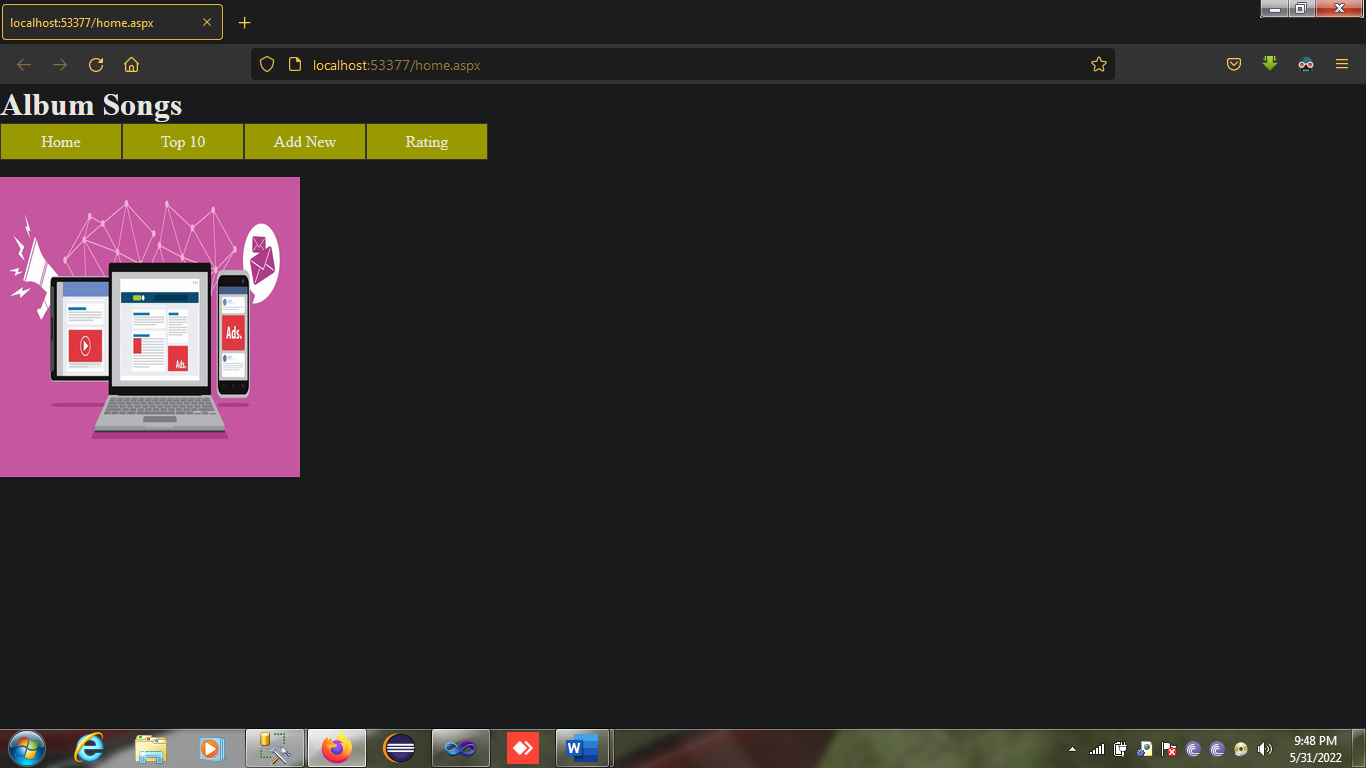
</body>

</html>

**Screenshot:**



**Output:**



**Artist page:**

Artist page code are given below with the screenshot.

**Artist.aspx:**

<html xmlns="http://www.w3.org/1999/xhtml">

<head runat="server">

<link href="home.css" rel="stylesheet" type="text/css" />

</head>

<body>

<div class="jumbotron text-center">

<h1>Adding Artists</h1>

</div>

<form id="form1" runat="server">

<div id = "menu">

<ul>

<li><a href="home.aspx">Home</a></li><br /><br /><br />

</ul>

</div>

<div text-align: center;">

<td>

<asp:Label ID="Label1" runat="server" Text="Artist Name"></asp:Label>

<asp:TextBox ID="TextBox1" runat="server"></asp:TextBox><br /><br /><br />

</td>

<td>

<asp:Label ID="Label2" runat="server" Text="Date of Birth"></asp:Label>

<asp:TextBox ID="TextBox2" runat="server" TextMode="Date"></asp:TextBox><br /><br /><br />

</td>

<td>

<asp:Label ID="Label3" runat="server" Text="Biography"></asp:Label>

<asp:TextBox ID="TextBox3" runat="server" TextMode="MultiLine" Rows="20" Columns ="60"></asp:TextBox><br /><br /><br />

</td>

<td>

<asp:Button ID="Button1" runat="server" Text="Save" onclick="Button1\_Click" />

<asp:Label ID="Label4" runat="server"></asp:Label>

</td>

</div>

</form>

</body>

</html>

**Artist.cs:**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

using System.Data;

using System.Data.SqlClient;

using System.Configuration;

namespace songalbum

{

public partial class Artist : System.Web.UI.Page

{

protected void Page\_Load(object sender, EventArgs e)

{

}

protected void Button1\_Click(object sender, EventArgs e)

{

string constrs =ConfigurationManager.ConnectionStrings["Song\_Album"].ConnectionString;

using (SqlConnection conn = new SqlConnection(constrs))

{

string sql = "INSERT INTO Artists VALUES(@ArtistName, @DOB,@Bio)";

using (SqlCommand cmd2 = new SqlCommand(sql, conn))

{

cmd2.Parameters.AddWithValue("@ArtistName",TextBox1.Text);

cmd2.Parameters.AddWithValue("@DOB",TextBox2.Text);

cmd2.Parameters.AddWithValue("@Bio", TextBox3.Text);

conn.Open();

cmd2.ExecuteNonQuery();

conn.Close();

}

Label4.Text = "Artist Details enter Successfully";

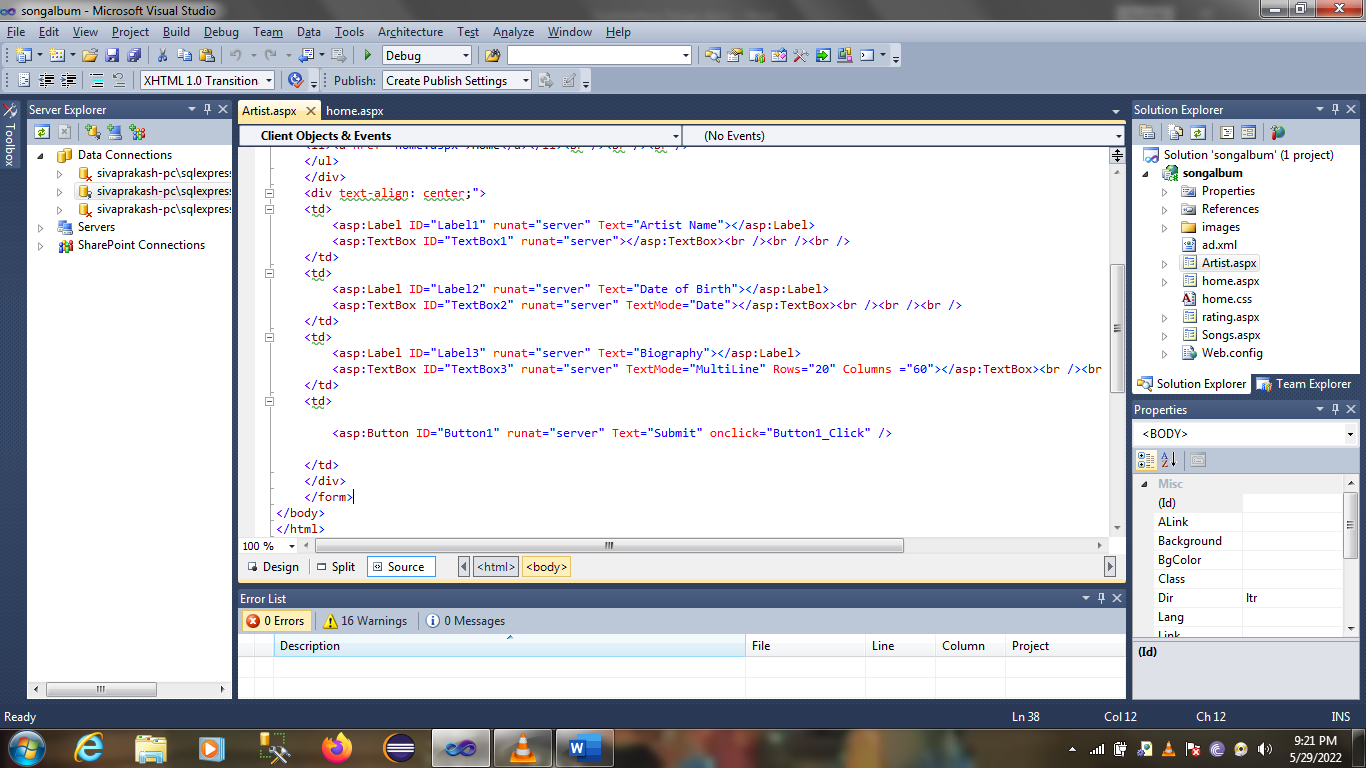
}

}

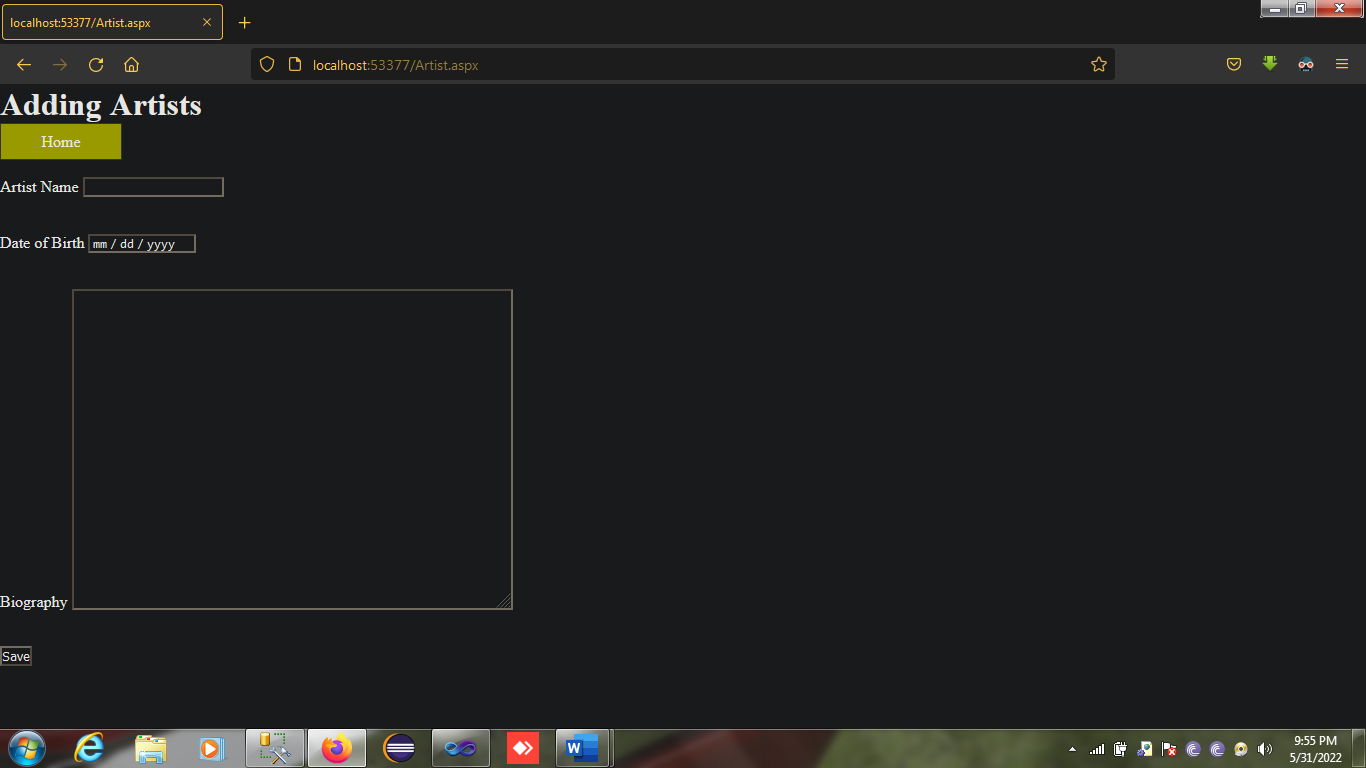
}

}

**Screenshot:**



**Output:**



**Song page:**

Song page codes are given below with the screenshot.

**Song.aspx:**

<html xmlns="http://www.w3.org/1999/xhtml">

<head runat="server">

<title></title>

<link href="home.css" rel="stylesheet" type="text/css" />

</head>

<body>

<div class="jumbotron text-center">

<h1>Adding Songs</h1>

</div>

<form id="form1" runat="server">

<div id = "menu">

<ul>

<li><a href="home.aspx">Home</a></li><br /><br /><br />

</ul>

</div>

<div>

<td>

<asp:Label ID="Label1" runat="server" Text="Song Name"></asp:Label>

<asp:TextBox ID="TextBox1" runat="server"></asp:TextBox><br /><br /><br />

</td>

<td>

<asp:Label ID="Label2" runat="server" Text="Date Of Released"></asp:Label>

<asp:TextBox ID="TextBox2" runat="server" TextMode="Date"></asp:TextBox><br /><br /><br />

</td>

<td>

<asp:Label ID="Label3" runat="server" Text="Cover Photo"></asp:Label>

<asp:FileUpload ID="FileUpload1" runat="server" /><br /><br /><br />

<asp:Button ID="Button1" runat="server" Text="Save" onclick="Button1\_Click" style="height: 26px"/>

<asp:Label ID="Label4" runat="server"></asp:Label>

</td>

</div>

</form>

</body>

</html>

**Songs.cs**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

using System.Data;

using System.Data.SqlClient;

using System.Configuration;

using System.IO;

namespace songalbum

{

public partial class Songs : System.Web.UI.Page

{

protected void Page\_Load(object sender, EventArgs e)

{

}

protected void Button1\_Click(object sender, EventArgs e)

{

byte[] bytes;

using (BinaryReader br = new BinaryReader(FileUpload1.PostedFile.InputStream))

{

bytes = br.ReadBytes(FileUpload1.PostedFile.ContentLength);

} string constr =ConfigurationManager.ConnectionStrings["Song\_Album"].ConnectionString;

using (SqlConnection conn = new SqlConnection(constr))

{

string sql = "INSERT INTO Songs(DateofRelease,cover,SongName) VALUES(@DateofRelease, @cover,@SongName)";

using (SqlCommand cmd1 = new SqlCommand(sql, conn))

{

cmd1.Parameters.AddWithValue("@SongName",TextBox1.Text);

cmd1.Parameters.AddWithValue("@DateofRelease",TextBox2.Text);

cmd1.Parameters.AddWithValue("@cover", bytes);

conn.Open();

cmd1.ExecuteNonQuery();

conn.Close();

}

Label4.Text = "Songs are Saved Successfully";

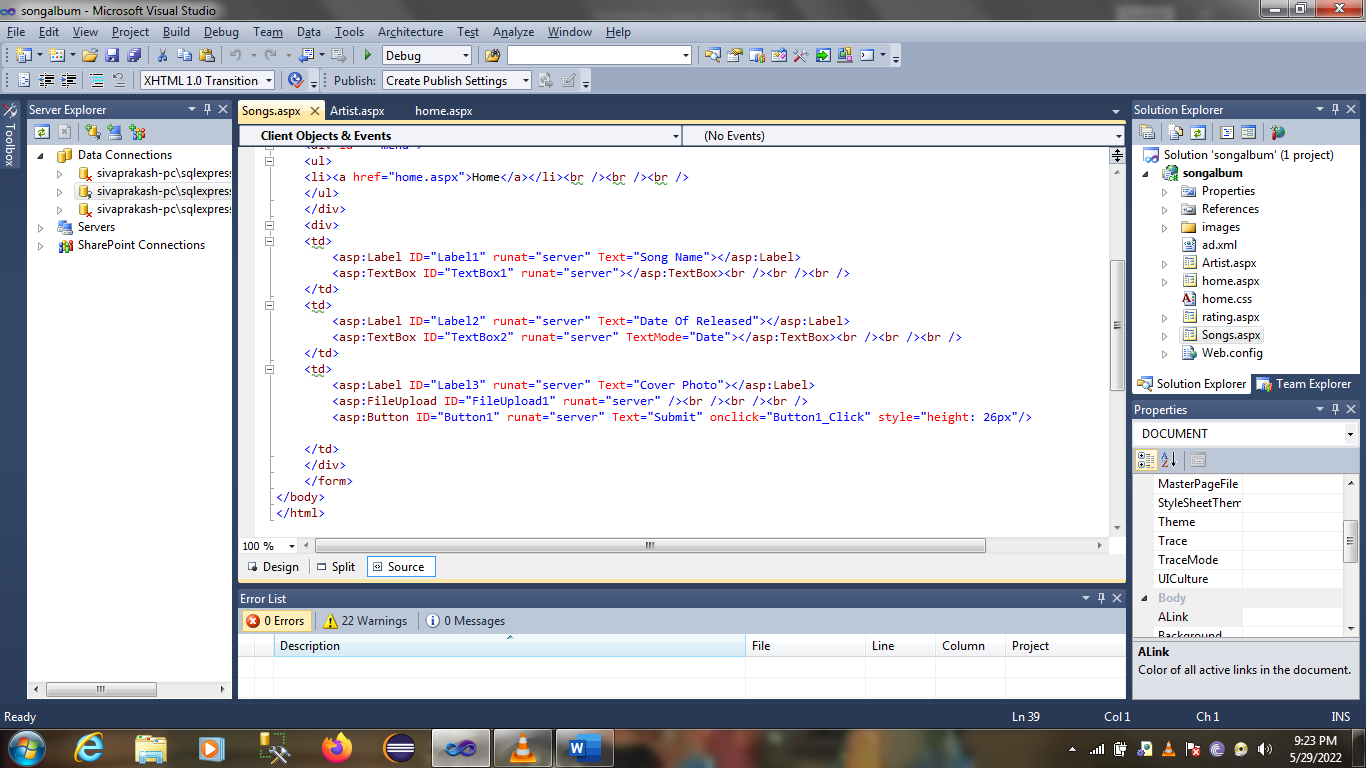
}

}

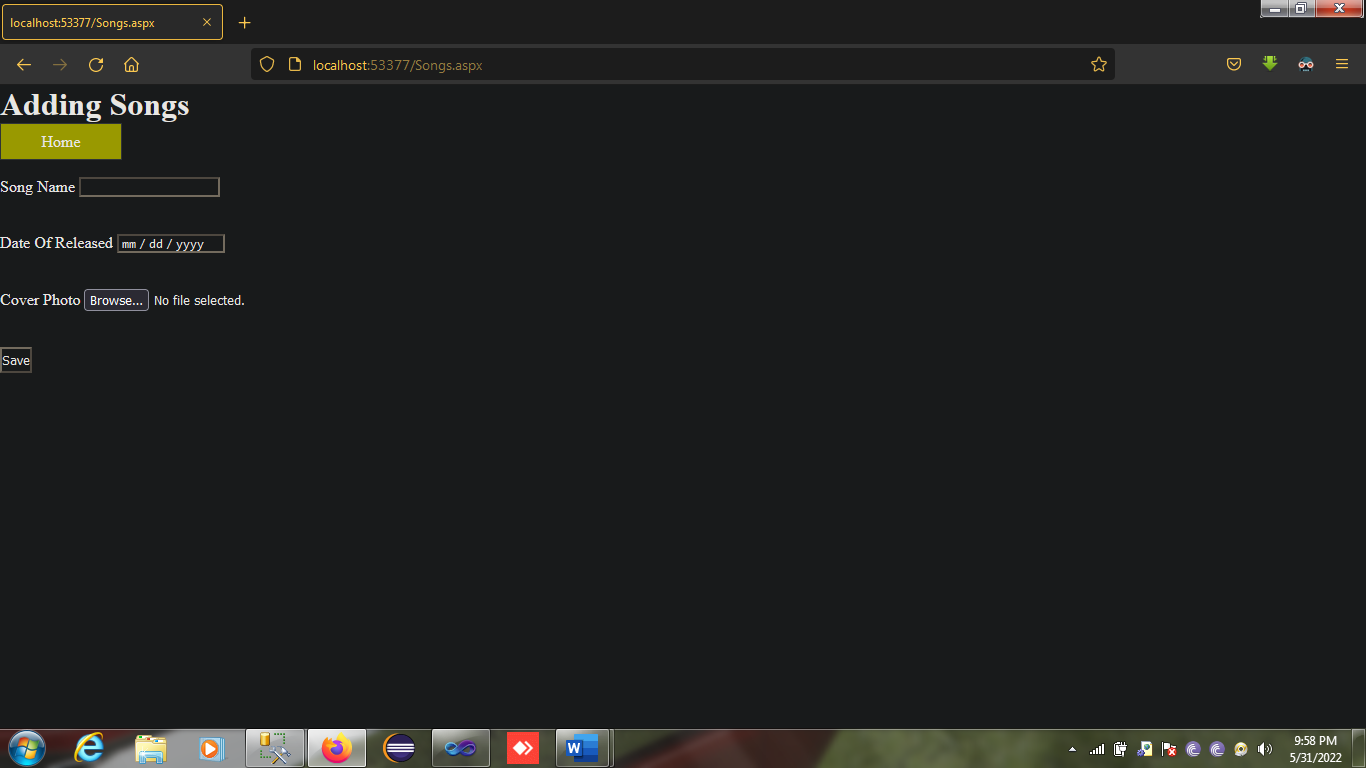
}

}

**Screenshots:**



**Output:**



**User Page:**

User page codes are given below with the screenshot

**User.aspx**

<head id="Head1" runat="server">

<link href="home.css" rel="stylesheet" type="text/css" />

</head>

<body>

<div class="jumbotron text-center">

<h1> User Rating</h1>

<form id="form1" runat="server">

<div id = "menu">

<ul>

<li><a href="home.aspx">Home</a></li><br /><br /><br />

</ul>

</div>

<div>

<asp:Label ID="Label5" runat="server" Text="UserName"></asp:Label>

<asp:TextBox ID="TextBox3" runat="server"></asp:TextBox><br /><br/><br />

</div>

<div>

<asp:Label ID="Label1" runat="server" Text="User Mailid"></asp:Label>

<asp:TextBox ID="TextBox1" runat="server" TextMode="Email"></asp:TextBox>

<asp:RegularExpressionValidator ID="RegularExpressionValidator1" runat="server"

ErrorMessage="invalid Email" ControlToValidate="TextBox1" ForeColor="red"

ValidationExpression="\w+([-+.']\w+)\*@\w+([-.]\w+)\*\.\w+([-.]\w+)\*"></asp:RegularExpressionValidator><br /><br /><br />

</div>

<div>

<asp:Label ID="Label3" runat="server" Text="Song Name"></asp:Label>

<asp:DropDownList ID="DropDownList1" runat="server">

</asp:DropDownList>

<br /><br /><br />

</div>

<asp:Label ID="Label2" runat="server" Text="Rating"></asp:Label>

<asp:TextBox ID="TextBox2" runat="server"></asp:TextBox>

<div>

<asp:Button ID="Button1" runat="server" Text="Submit" onclick="Button1\_Click" />

<asp:Label ID="Label4" runat="server"></asp:Label>

</div>

</form>

</body>

</html>

**User.cs**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

using System.Data;

using System.Data.SqlClient;

using System.Configuration;

namespace songalbum

{

public partial class rating : System.Web.UI.Page

{

protected void Page\_Load(object sender, EventArgs e)

{

if (!Page.IsPostBack)

{

SqlConnection con = new SqlConnection(@"Data Source=SIVAPRAKASH-PC\SQLEXPRESS;Initial Catalog=Song\_Album;Integrated Security=True");

SqlCommand cmd = new SqlCommand("select SongName from Songs", con);

SqlDataAdapter sda = new SqlDataAdapter(cmd);

DataTable dt = new DataTable();

sda.Fill(dt);

DropDownList1.DataSource = dt;

DropDownList1.DataTextField = "SongName";

//DropDownList1.DataValueField = "Songid";

DropDownList1.DataBind();

}

}

protected void Button1\_Click(object sender, EventArgs e)

{

if (Convert.ToInt32(TextBox2.Text) >= 1 && Convert.ToInt32(TextBox2.Text) <= 5)

{

string constrs = ConfigurationManager.ConnectionStrings["Song\_Album"].ConnectionString;

using (SqlConnection conn = new SqlConnection(constrs))

{

string sql = "INSERT INTO Users VALUES(@UserName,@Email)";

using (SqlCommand cmd2 = new SqlCommand(sql, conn))

{

cmd2.Parameters.AddWithValue("@UserName", TextBox3.Text);

cmd2.Parameters.AddWithValue("@Email", TextBox1.Text);

conn.Open();

cmd2.ExecuteNonQuery();

conn.Close();

}

}

string constr = ConfigurationManager.ConnectionStrings["Song\_Album"].ConnectionString;

using (SqlConnection con = new SqlConnection(constr))

{

string sql = "INSERT INTO Song\_Rating VALUES(@UserName,@Rating,@SongName)";

using (SqlCommand cmd3 = new SqlCommand(sql, con))

{

cmd3.Parameters.AddWithValue("@UserName", TextBox3.Text);

cmd3.Parameters.AddWithValue("@Rating", TextBox2.Text);

cmd3.Parameters.AddWithValue("@SongName", DropDownList1.Text);

con.Open();

cmd3.ExecuteNonQuery();

con.Close();

Label4.Text = "rating has been done successfully ";

}

}

}

else

{

Label4.Text = "enter valid rating";

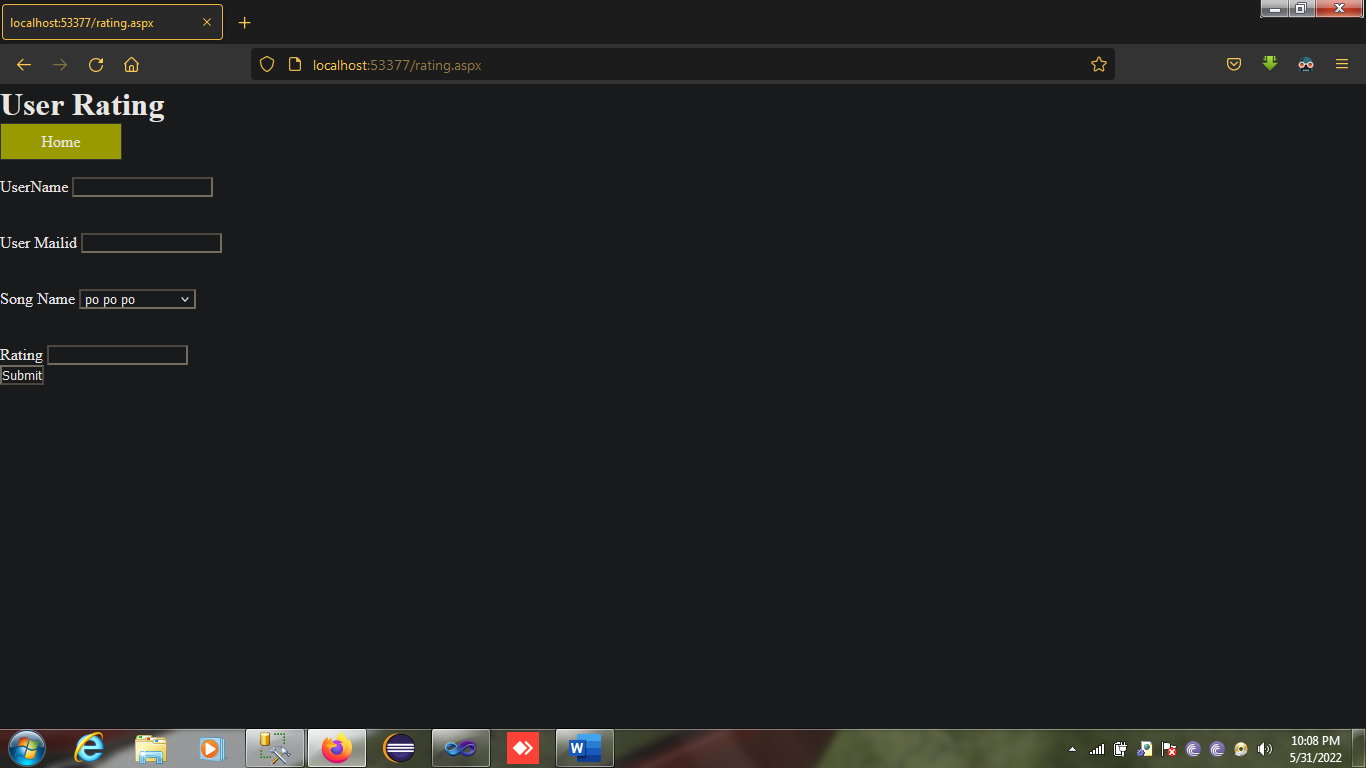
}

}

}

}

**Output:**



**GridView for Top 10 Songs:**

**SongGridView.aspx**

<html xmlns="http://www.w3.org/1999/xhtml">

<head runat="server">

<title></title>

</head>

<body>

<div class="jumbotron text-center">

<h1>Top 10 Songs</h1>

</div>

<form id="form1" runat="server">

<div id = "menu">

<ul>

<li><a href="home.aspx">Home</a></li><br /><br /><br />

</ul>

</div>

<div>

<asp:GridView ID="GridView1" runat="server" AutoGenerateColumns="false" OnRowDataBound="OnRowDataBound" RowStyle-HorizontalAlign="Center">

<Columns>

<asp:BoundField DataField="DateofRelease" HeaderText="Date Of Release" DataFormatString="{0:MM/dd/yy}" />

<asp:TemplateField HeaderText="Image">

<ItemTemplate>

<asp:Image ID="Image1" runat="server" Height="100px" width="100px" />

</ItemTemplate>

</asp:TemplateField>

<asp:BoundField DataField="SongName" HeaderText="Songs" />

</Columns>

</asp:GridView>

</div>

</form>

</body>

</html>

**SongGridview.cs**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

using System.Data;

using System.Configuration;

using System.Data.SqlClient;

namespace songalbum

{

public partial class Songgridview : System.Web.UI.Page

{

protected void Page\_Load(object sender, EventArgs e)

{

if (!this.IsPostBack)

{

string constr = ConfigurationManager.ConnectionStrings["Song\_Album"].ConnectionString;

using (SqlConnection conn = new SqlConnection(constr))

{

using (SqlDataAdapter sda = new SqlDataAdapter("select top 10\* From Songs ", conn))

{

DataTable dt = new DataTable();

sda.Fill(dt);

GridView1.DataSource = dt;

GridView1.DataBind();

}

}

}

}

protected void OnRowDataBound(object sender, GridViewRowEventArgs e)

{

if (e.Row.RowType == DataControlRowType.DataRow)

{

DataRowView dr = (DataRowView)e.Row.DataItem;

String imageUrl = "Data:image/jpg;base64," + Convert.ToBase64String((byte[])dr["cover"]);

(e.Row.FindControl("Image1") as Image).ImageUrl = imageUrl;

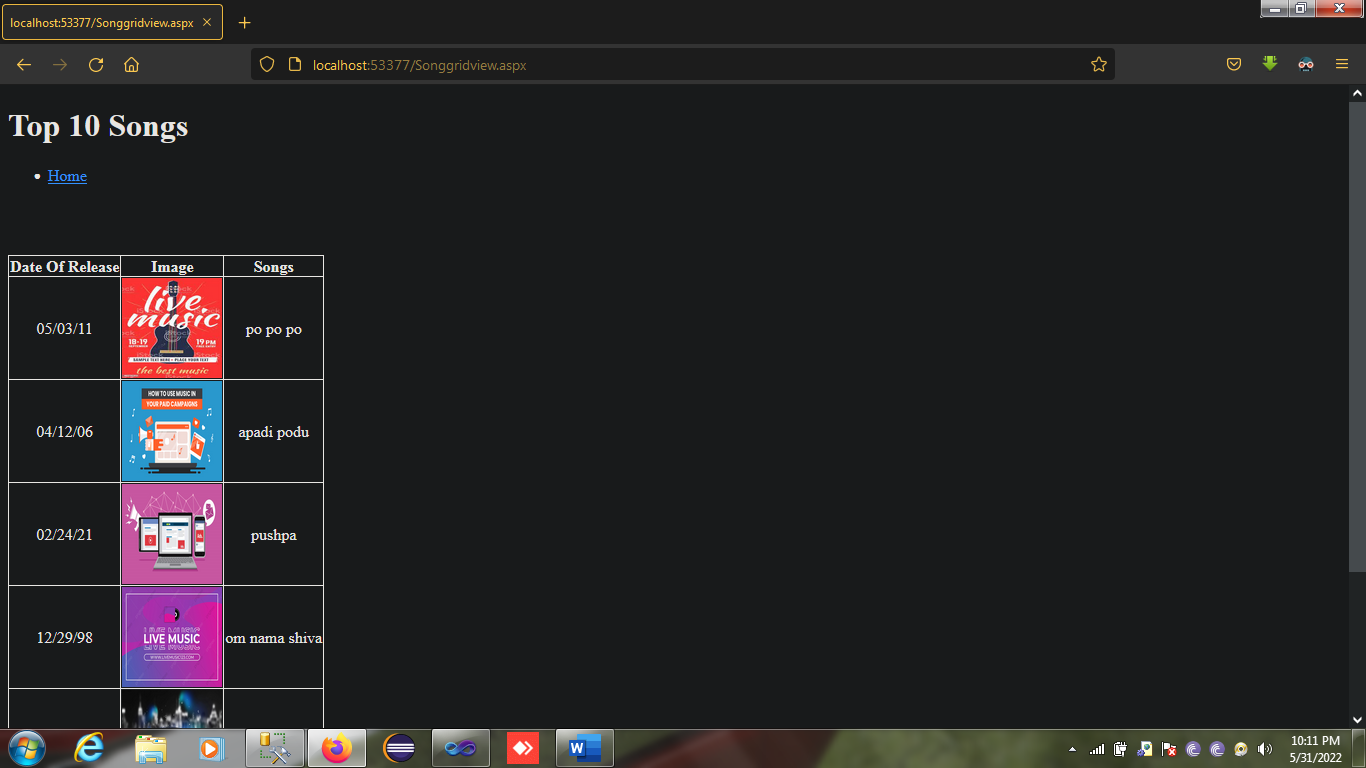
}

}

}

}

**Output:**



Note:

SELECT top 3 Songs.DateofRelease, Songs.SongName, Songs.cover,temp.Avg\_Rating

FROM Songs

INNER JOIN temp ON Songs.SongName=temp.SongName order by temp.Avg\_Rating desc

Due to lack of time I cannot able to execute in asp.net but I have written query for the task given to me. below I have attach the screenshot.

