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# How To Create Login Page In ASP.NET Web Application Using C# And SQL Server



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849.4k

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## Introduction

This article demonstrates how to create a login page in an ASP.NET Web Application, using C# connectivity by SQL server. This article starts with an introduction of the creation of the database and table in SQL Server. Afterwards, it demonstrates how to design ASP.NET login page. In the end, the article discusses how to create a connection ASP.NET Web Application to SQL Server.

## Prerequisites

VS2010/2012/2013/15/17, SQL Server 2005/08/2012

## Project used version

VS2013, SQL SERVER 2012

## Step 1

### Creating a database and a table

To create a database, write the query in SQL Server

```
01. Create database abcd      --Login is my database name
02. Use abcd                 --Select database or use database
03. Create table Ulogin      --create table Ulogin is my table name
04. (
05.     UserId varchar(50) primary key not null,  --
    primary key not accept null value
```

```
08. | insert into Ulogin values ('Krish', 'kk@321') --
    | insert value in Ulogin table
```

Proceed, as shown below.

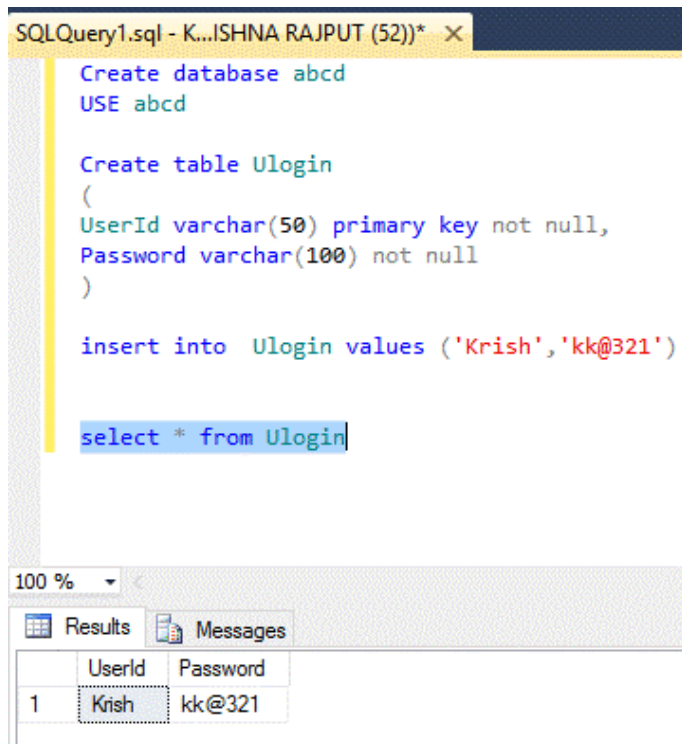
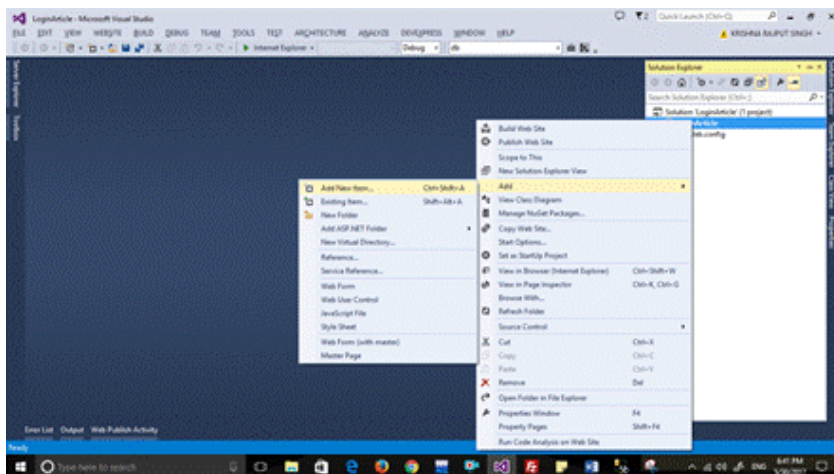
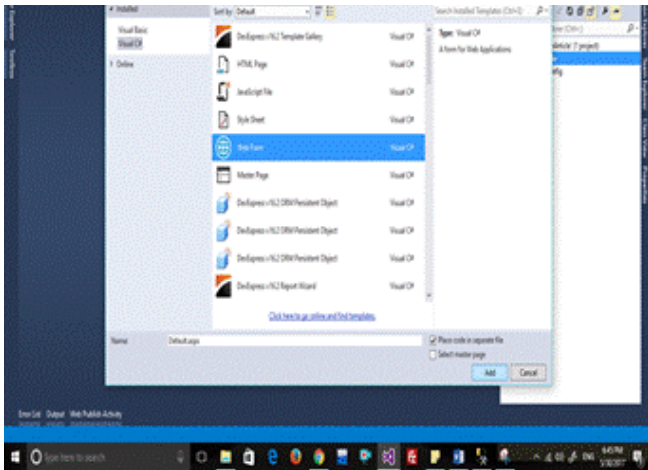


Figure 1

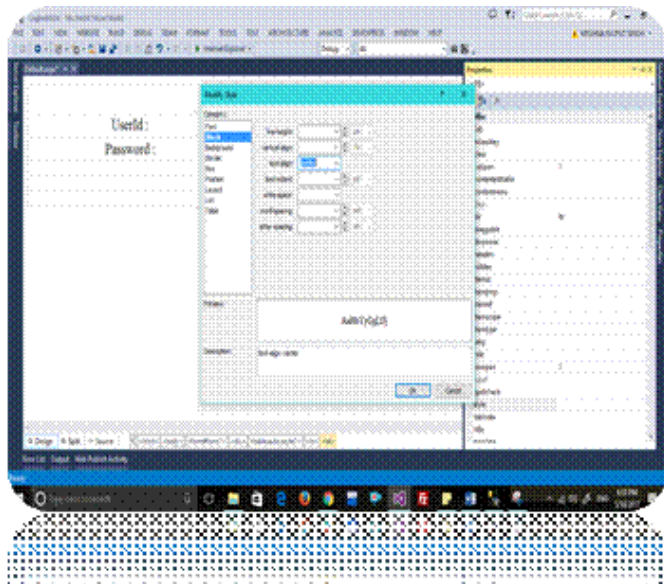
## Step 2

Step 1 is complete. Let's start design login view in ASP.NET Web Application. I am using a simple design, since design is not the purpose of this article. So let's start by opening VS (any version) and go to File, select New, select Web site. You can also use shortcut key (Shift+Alt+N). When you are done with expanding Solution Explorer, right click on your project name, select add, click Add New Item (for better help, refer to the screenshot given below). Select Web Form, if you want to change Web form name. You can save it as it is. Default.aspx is added in my project.





Now, let's design my default.aspx page in <div> tag insert table, as per the required rows and columns and set the layout style of the table. If you want all tools set in center, go to Table properties and click Style text align.



The source code is given below.

```

01. <%@ Page Language="C#" AutoEventWireup="true" CodeFile="Default.aspx.cs" In
02.
03. <!DOCTYPE html>
04.
05. <html xmlns="http://www.w3.org/1999/xhtml">
06. <head runat="server">
07.     <title></title>
08.     <style type="text/css">
09.         .auto-style1 {
10.             width: 100%;
11.         }
12.     </style>
13. </head>
14. <body>
15.     <form id="form1" runat="server">
16.     <div>

```

```

19.         <tr>
20.             <td colspan="6" style="text-align: center; vertical-
align: top">
21.         </td>
22.     </tr>
23. </table>
24.     </div>
25. </form>
26. </body>
27. </html>

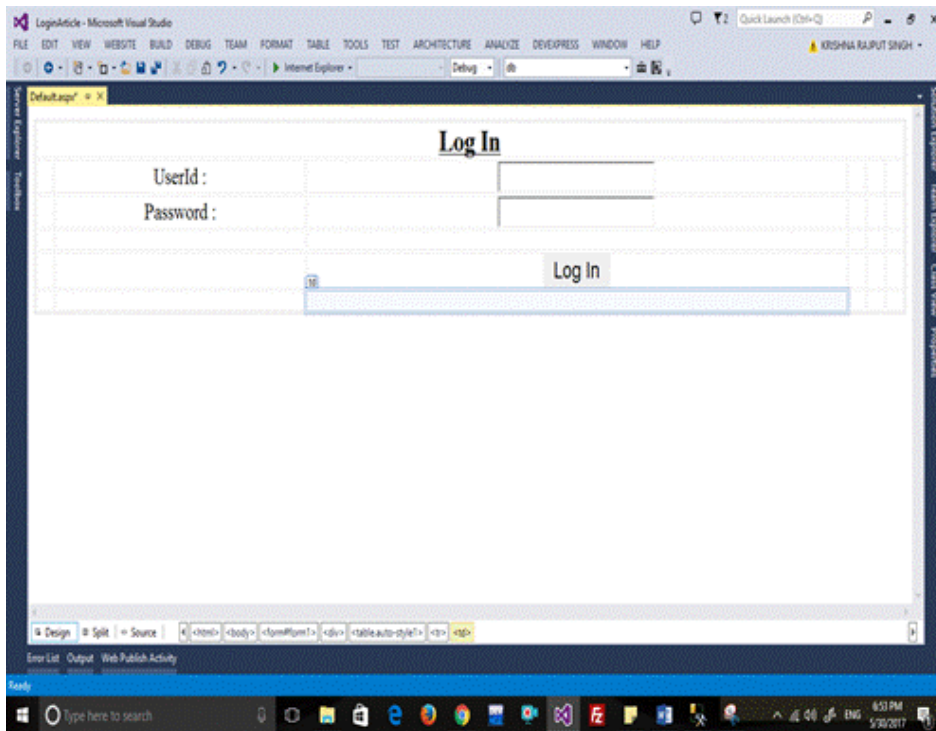
```

Afterwards, drag and drop two labels, two textboxes and one button. Set the password textbox properties to Text Mode as a password.

```

01. <asp:TextBox ID="TextBox2" runat="server" Font-Size="X-
Large" TextMode="Password"></asp:TextBox>

```



The complete source code is given below.

```

01. <%@ Page Language="C#" AutoEventWireup="true" CodeFile="Default.aspx.cs" In
02.
03. <!DOCTYPE html>
04.
05. <html xmlns="http://www.w3.org/1999/xhtml">
06. <head runat="server">
07.     <title></title>
08.     <style type="text/css">
09.         .auto-style1 {
10.             width: 100%;
11.         }
12.     </style>
13. </head>
14. <body>
15.     <form id="form1" runat="server">

```

```

18.         <table class="auto-style1">
19.             <tr>
20.                 <td colspan="6" style="text-align: center; vertical-
align: top">
21.                     <asp:Label ID="Label1" runat="server" Font-
Bold="True" Font-Size="XX-Large" Font-Underline="True" Text="Log In ">
</asp:Label>
22.                 </td>
23.             </tr>
24.             <tr>
25.                 <td> </td>
26.                 <td style="text-align: center">
27.                     <asp:Label ID="Label2" runat="server" Font-Size="X-
Large" Text="UserId :"></asp:Label>
28.                 </td>
29.                 <td style="text-align: center">
30.                     <asp:TextBox ID="TextBox1" runat="server" Font-
Size="X-Large"></asp:TextBox>
31.                 </td>
32.                 <td> </td>
33.                 <td> </td>
34.                 <td> </td>
35.             </tr>
36.             <tr>
37.                 <td> </td>
38.                 <td style="text-align: center">
39.                     <asp:Label ID="Label3" runat="server" Font-Size="X-
Large" Text="Password :"></asp:Label>
40.                 </td>
41.                 <td style="text-align: center">
42.                     <asp:TextBox ID="TextBox2" runat="server" Font-
Size="X-Large" TextMode="Password"></asp:TextBox>
43.                 </td>
44.                 <td> </td>
45.                 <td> </td>
46.                 <td> </td>
47.             </tr>
48.             <tr>
49.                 <td> </td>
50.                 <td> </td>
51.                 <td> </td>
52.                 <td> </td>
53.                 <td> </td>
54.                 <td> </td>
55.             </tr>
56.             <tr>
57.                 <td> </td>
58.                 <td> </td>
59.                 <td style="text-align: center">
60.                     <asp:Button ID="Button1" runat="server" BorderStyle="Nor
Size="X-Large" OnClick="Button1_Click" Text="Log In" />
61.                 </td>
62.                 <td> </td>
63.                 <td> </td>
64.                 <td> </td>
65.             </tr>
66.             <tr>
67.                 <td> </td>
68.                 <td> </td>

```

```

71.         <asp:Label ID="Label1" runat="server" Text="Log In" style="font-size: 1.2em; color: blue;"></asp:Label>
72.     </td> </td>
73.     <td> </td>
74.     <td> </td>
75. </tr>
76. </table>
77.
78. </div>
79. </form>
80. </body>
81. </html>

```

### Step 3

Let's create a connection Web Application to SQL Server. Double click on log in button. Prior to doing this, open web config file, write add connection code as given below.

```

01. <connectionStrings>
02.     <add name="mycon" connectionString="server=KRISHNA\SQLEXPRESS;database=aspnetdb;" />
03. </connectionStrings>

```

Write the source code for the connection, add namespace for SQL Server.

```

01. using System.Data.SqlClient; //this namespace is for sqlclient server
02. using System.Configuration; // this namespace is add I am adding connection

```

Create a SQL connection object with the connection name and write the code given below.

```

01. SqlConnection con = new SqlConnection(ConfigurationManager.ConnectionStrings["mycon"].ConnectionString);

```

### Adding a Button Click Event Handler

The Click attribute of the button element adds the click event handler. The code given below adds the click event handler for a button.

```

01. <td style="text-align: center;">
02.     <asp:Button ID="Button1" runat="server" BorderStyle="None" Text="Log In" OnClick="Button1_Click" />
03. </td>

```

The code for the click event handler looks, as shown below.

```

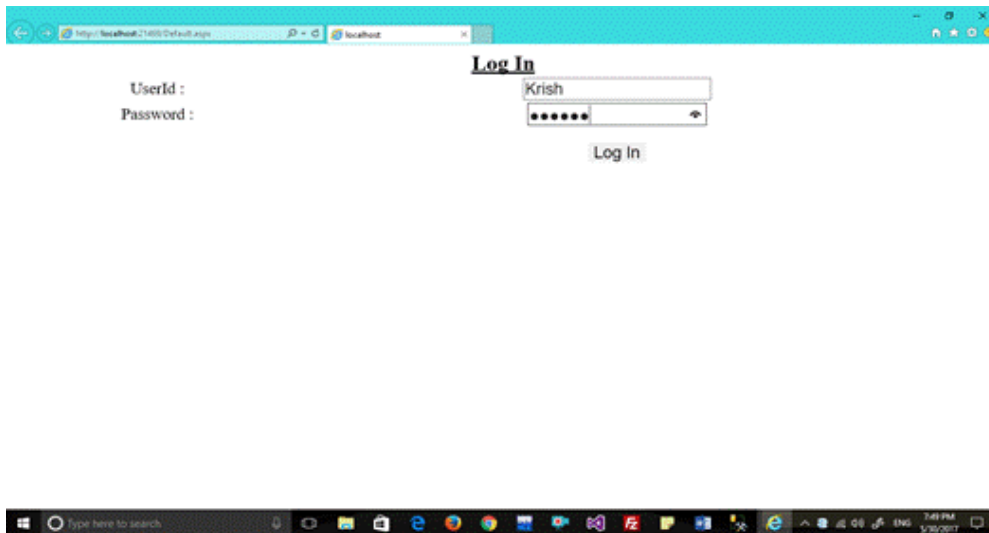
01. protected void Button1_Click(object sender, EventArgs e)
02. {
03.
04. }

```

Now, whatever code you write in the click event handler, it will be executed on the click of a button.

```
03. try{
04.     string uid = TextBox1.Text;
05.     string pass = TextBox2.Text;
06.     con.Open();
07.     string qry = "select * from Ulogin where UserId='" + uid + "' and Pa
08.     SqlCommand cmd = new SqlCommand(qry,con);
09.     SqlDataReader sdr = cmd.ExecuteReader();
10.     if(sdr.Read())
11.     {
12.         Label4.Text = "Login Sucess.....!!";
13.     }
14.     else
15.     {
16.         Label4.Text = "UserId & Password Is not correct Try again..!!";
17.     }
18.     con.Close();
19. }
20. catch(Exception ex)
21. {
22.     Response.Write(ex.Message);
23. }
24. }
25. }
26. }
27. }
```

The final output is given below.







## Summary

In this article, I discussed how to create a login page in ASP.NET Web Application, using C# connectivity by SQL Server. We also saw how we create a database and create a table. Afterwards, we saw how to design ASP.NET login view and its properties to insert the table. At the end of this article, we saw how to connect an ASP.NET Web Application to SQL server. My next article will discuss how to validate textbox, so stay tuned.

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<https://itprogramminghub.blogspot.com/>

455

4.5m





Type your comment here and press Enter Key (Minimum 10 characters)



Please don't even dare to publish this sort of code. Its really very very unsafe. No parametrized queries, no session maintenance, no authentication modes... Please improve it. And also dont store password in plain text.

[Deepak Bhardwaj](#)

Oct 09, 2021

2036 36 0

0 0 Reply



Besides being unsafe because of lack of parameters, it is also very unsafe to store passwords as plain text. The database code is also bad. Commands and connections need to be disposed as soon as possible.

[Mary O'Brien](#)

Sep 18, 2021

1992 80 0

0 0 Reply



This is VERY unsafe code. Its vulnerable to SQL injection attacks. Parameterised queries should ALWAYS be used whilst using SQL commands that take values from client side fields. If a user wrote SQL in the text box it would get executed. This should be modified or removed.

[Rob Bolter](#)

Sep 06, 2020

2069 3 0

0 0 Reply



Really super sir.... thank you so much

[JyothiRmai v](#)

Jul 04, 2020

2066 6 0

0 0 Reply



Hi, firstly this was a great article. I have actually implemented the same thing using an online ms sql database. The login works. The problem I have is trying to figure out when the user logs in and has been accepted how do I carry that user log in information on to the next page?

[Nigel Stanley](#)

Apr 02, 2019

2066 6 0

0 0 Reply



Please take this down it's extremely outdated, terrible practice and incredibly insecure. If anyone reads this, please do not use this. I dread to think how many of the current tutorial view count of 264,000 people have gone ahead and used this!

[Scott Callan](#)

Oct 24, 2018

2038 34 0

3 0 Reply



Thank you sir this is so useful for me

[Deepak Jerry](#)

Feb 06, 2018

1920 152 331

3 1 Reply



You welcome Deepak jerry

[Krishna Rajput Singh](#)

Mar 06, 2018

455 4.9k 4.5m

2



Are you kidding me? This looks like a tutorial from 10 years ago. You used a table for the layout? Storing passwords in a database in clear text? This whole article is a good example of everything you shouldn't do.

[Aaron Throckmorton](#)

Jun 02, 2017

2070 2 0

4 1



kidding you

Krishna Rajput Singh

455 4.9k 4.5m

Jun 02, 2017

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