



Program 2

Pdf:

<https://s3-us-west-2.amazonaws.com/secure.notion-static.com/86c6b20d-cc6d-46ab-a8fc-4f59545d1924/Program2.pdf>

Create a web application to check the availability of username from database.

Design / Structure:

The screenshot shows a web application window titled 'LoginForm.aspx'. The main heading is 'Check Availability of Username' in a large, bold, orange font. Below the heading, there are two input fields: 'Username:' and 'Password:'. Below these fields is a 'Check' button. At the bottom left, there is a 'Label' placeholder for displaying the result.

Source Code:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
using System.Data.SqlClient;

namespace PartBTwo
{
    public partial class LoginForm : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {

        }

        protected void checkBtn_Click(object sender, EventArgs e)
        {
            String str1;
            SqlConnection con = new SqlConnection(@"Data Source=vigneshs-pc\SQLEXPRESS;Initial Catalog=simpledb;Integrated Security=True");
```

```

try
{
    Object uname;
    con.Open();
    str1 = "select * from UsernameTable where Username like '" + usrBox.Text + "'";
    SqlCommand cmd1 = new SqlCommand(str1, con);
    uname = cmd1.ExecuteScalar();

    if (uname == null)
        availLabel.Text = "Username available";
    else
        availLabel.Text = "Username not available";

    con.Close();
}
catch (Exception ex)
{
    availLabel.Text = "Technical Error";
}

availLabel.Visible = true;
}
}
}

```

Tables:

The screenshot displays the SQL Server Enterprise Manager interface for a table named **dbo.LoginTable**. The table is shown in the Design view, with columns **Username** and **Password**. Both columns are of type **varchar(50)** and are marked as **NOT NULL**. The **Username** column is also designated as the **PRIMARY KEY** with a **CLUSTERED** index. Below the design view, the T-SQL script is visible, showing the **CREATE TABLE** statement for **dbo.LoginTable**.

Name	Data Type	Allow Nulls	Default
Username	varchar(50)	<input type="checkbox"/>	
Password	varchar(50)	<input type="checkbox"/>	

```

1 CREATE TABLE [dbo].[LoginTable] (
2     [Username] VARCHAR (50) NOT NULL,
3     [Password] VARCHAR (50) NOT NULL,
4     PRIMARY KEY CLUSTERED ([Username] ASC)
5 );
6

```



Username
roronoa_zoro
vinsmoke_sanji
nico_robin
monkey_d_luffy
nami
ussop
chopper
brook
gol_d_rodger
edward_newgate
oden
NULL

Output:

Check Availability of Username

Username:

Password:

Username not available