

Step by Step of how to create and use Database in Asp.Net C#

- Click Add New Item on your project file.
- Select Data and Add SQL Server database
- Click Yes to Create AppData Folder
- On the Left Hand Corner of your Workspace, Click Server Explorer
- The Database you created will appear there Under Data Connections.
- Click once to refresh the database, then right click and add Table
- Change the table name inside [dbo].[Table] to [dbo].[myuser]
- You cannot use some reserved word like user etc.
- Add all the table columns
- Click Update on the Top Corner of the Workspace and Update Database, failure to do that will make your table disappear.
- In the C# code you need to add new Header.
 - using System.Data;
 - using System.Data.SqlClient;
 - using System.Configuration; // If you are using the configuration connection mode.
- You can set Unobtrusive Validation Mode in the page load by adding this : `ValidationSettings.UnobtrusiveValidationMode = UnobtrusiveValidationMode.None;`
- If you are using ConnectionString Method, Go to your Design View, Toolbox -> Data -> SqlDataSource
- Configure DataSource , Add your Database, Check Connection String and Save the ConnectionString with your own name.

- C# Code : If you need to check if the username already exist, you need to do that in PageLoad or in the button method.

if (IsPostBack)

```
{
    SqlConnection conn = new
    SqlConnection(ConfigurationManager.ConnectionStrings["connectionname
    "].ConnectionString);
        conn.Open();
        string checkuserexist = "select count(*) from userx where
    username='" + username.Text + "'";
        SqlCommand com = new SqlCommand(checkuserexist, conn);
        int temp = Convert.ToInt32(com.ExecuteScalar().ToString());
        if (temp == 1)
        {
            Response.Write("User already exists");
        }
    }
```

- To do a simple insert Method, You have to do this in the button method and always use TRY/CATCH

```
try
{
    SqlConnection conn = new
    SqlConnection(ConfigurationManager.ConnectionStrings["hello"].ConnectionString);
        conn.Open();
        string insertQuery = "insert into userx
    (firstname,lastname,username,password,email,phonenumner) values
    (@firstname,@lastname,@username,@password,@email,@phonenumner)";
```

```
SqlCommand com = new SqlCommand(insertQuery, conn);
```

```
    com.Parameters.AddWithValue("@firstname", firstname.Text);  
    com.Parameters.AddWithValue("@lastname", lastname.Text);  
    com.Parameters.AddWithValue("@username", username.Text);  
    com.Parameters.AddWithValue("@password", password.Text);  
    com.Parameters.AddWithValue("@email", email.Text);  
    com.Parameters.AddWithValue("@phonenumber", phonenumber.Text);  
    com.ExecuteNonQuery();  
    Response.Write("Registration is successful.");  
    Response.Redirect("Login.aspx");  
    conn.Close();  
}  
catch (Exception ex)  
{  
    Response.Write("Error:" + ex.ToString());  
}
```

- Without Connection String Method

```
SqlConnection con = new SqlConnection(@"Data  
Source=(LocalDB)\MSSQLLocalDB;AttachDbFilename=|DataDirectory|\Data  
base.mdf;Integrated Security=True");
```