ASP.NET LAB MANUAL

# Practical 2: Enable/Disable and Resize TextBox Programmatically

## Objective

To create a web application using ASP.NET Web Forms to demonstrate enabling/disabling a TextBox and changing its width programmatically using Button click events.

## Software Requirements

|  |  |
| --- | --- |
| Component | Description |
| IDE | Visual Studio (2017/2019/2022) |
| .NET Framework | ASP.NET with .NET Framework (4.5 or above) |
| Browser | Google Chrome / Microsoft Edge |
| Language | C# (Code-behind) |

## Web Controls Used

* TextBox: For displaying input
* Button: To enable, disable, and change width of the TextBox
* Label: Optional - to show status messages

## Step-by-Step Instructions

Step 1: Create a new ASP.NET Web Forms project in Visual Studio.

Step 2: Design the web form in Default.aspx using the following code:

<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="Default.aspx.cs" Inherits="TextboxControlDemo.Default" %>  
  
<!DOCTYPE html>  
<html xmlns="http://www.w3.org/1999/xhtml">  
<head><title>Textbox Control Demo</title></head>  
<body>  
 <form id="form1" runat="server">  
 <div style="margin: 50px;">  
 <asp:TextBox ID="txtDemo" runat="server" Width="200px"></asp:TextBox><br /><br />  
 <asp:Button ID="btnEnable" runat="server" Text="Enable TextBox" OnClick="btnEnable\_Click" />  
 <asp:Button ID="btnDisable" runat="server" Text="Disable TextBox" OnClick="btnDisable\_Click" />  
 <asp:Button ID="btnResize" runat="server" Text="Change Width" OnClick="btnResize\_Click" />  
 </div>  
 </form>  
</body>  
</html>

Step 3: Write the backend C# code in Default.aspx.cs:

using System;  
  
namespace TextboxControlDemo  
{  
 public partial class Default : System.Web.UI.Page  
 {  
 protected void btnEnable\_Click(object sender, EventArgs e)  
 {  
 txtDemo.Enabled = true;  
 }  
  
 protected void btnDisable\_Click(object sender, EventArgs e)  
 {  
 txtDemo.Enabled = false;  
 }  
  
 protected void btnResize\_Click(object sender, EventArgs e)  
 {  
 txtDemo.Width = new System.Web.UI.WebControls.Unit(400);  
 }  
 }  
}

## Step 4: Run the Application

Press F5 or Start Debugging in Visual Studio. Use the buttons to enable/disable the TextBox or to change its width dynamically.

## Expected Output

When you click 'Disable TextBox', the TextBox becomes uneditable. Clicking 'Enable TextBox' re-enables it. Clicking 'Change Width' makes the TextBox wider.

## Conclusion

Successfully implemented a TextBox that can be enabled, disabled, and resized programmatically using ASP.NET Web Forms and C# code-behind logic.

## Viva Questions with Answers

1. 1. What property is used to disable a TextBox in ASP.NET?

Answer: The 'Enabled' property. Setting it to false disables the control.

1. 2. How do you change the width of a TextBox programmatically?

Answer: By setting the 'Width' property using a Unit value, e.g., txtDemo.Width = new Unit(400);

1. 3. Can we manipulate controls during runtime in ASP.NET Web Forms?

Answer: Yes, using the code-behind (C#), we can change properties like Enabled, Width, Text, etc., at runtime.

1. 4. What happens when a control is disabled in ASP.NET?

Answer: The control becomes non-editable and doesn't post its value back to the server during postback.

1. 5. What is the role of Button control in this program?

Answer: Each Button is used to perform a different action on the TextBox such as enabling, disabling, or resizing it.