

ASP.Net Web Apps

Logbook 1 (Unit 2)

Task 1 (2 marks)

Task Description

Create a simple Razor Pages script which lets a user enter their name into an input field, press a button, and then a message which displays their name should appear. See Unit 2 slides for the relevant walkthrough. Screenshot your code and resultant functionality working in a browser.

ASP/HTML Code

```
<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
  <title></title>
</head>
<body>
  <h1>Derek's Web Forms Simple Hello Program</h1>
  <form id="helloForm" runat="server">
    <div>
      <p>
        <asp:Label ID="NameLabel" runat="server" Text="Enter your name"></asp:Label>
      </p>
      <p>
        <asp:TextBox ID="NameTextBox" runat="server"></asp:TextBox>
      </p>
      <p>
        <asp:Button ID="SubmitButton" runat="server" Text="Submit" OnClick="SayHello" />
      </p>
      <p>
        <asp:Label ID="MessageLabel" runat="server"></asp:Label>
      </p>
    </div>
  </form>
</body>
</html>
```

C# Code

```
z references | u changes | u authors, u changes
public partial class Hello : System.Web.UI.Page
{
  0 references | 0 changes | 0 authors, 0 changes | 0 exceptions
  protected void Page_Load(object sender, EventArgs e)
  {
  }

  0 references | 0 changes | 0 authors, 0 changes | 0 exceptions
  protected void SayHello(object sender, EventArgs e)
  {
    string name = NameTextBox.Text;
    MessageLabel.Text = "Hello " + name ;
  }
}
```

Output

Derek's Web Forms Simple Hello Program

Enter your name

Hello Derek

Task 2 (3 marks)

Task Description

Implement a simple currency convertor script using Razor Pages. You may hard-code the exchange rate into the script.

ASP.NET Core Web App

W2_RazorExample Home About Contact

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Learn how to build ASP.NET apps that can run anywhere. [Learn More](#)

Application uses

- Sample pages using ASP.NET Core Razor Pages
- Theming using Bootstrap

How to

- Working with Razor Pages.
- Manage User Secrets using Secret Manager.
- Use logging to log a message.
- Add packages using NuGet.
- Target development, staging or production environment.

Overview

- Conceptual overview of what is ASP.NET Core
- Fundamentals of ASP.NET Core such as Startup and middleware.
- Working with Data
- Security
- Client side development
- Develop on different platforms
- Read more on the documentation site

Run & Deploy

- Run your app
- Run tools such as EF migrations and more
- Publish to Microsoft Azure App Service

Razor Page

```

1  @page
2  @model W2_RazorExample.Pages.HelloModel
3  @{
4      ViewData["Title"] = "Hello Derek";
5  }
6
7  <h2>Hello Derek</h2>
8  <h3>Time @DateTime.Now</h3>
9  <p>
10     Please enter your name and click submit
11 </p>
12 <section asp-validation-summary="All"></section>
13 <section>
14     <form method="POST">
15         <p>
16             <label>Name: </label>
17             <input id="name" asp-for="name" />
18         </p>
19         <p>
20             <input type="submit" />
21         </p>
22     </form>
23     <p>
24         Hello @this.Model.name
25     </p>
26 </section>
27
28

```

Code Behind Page

```

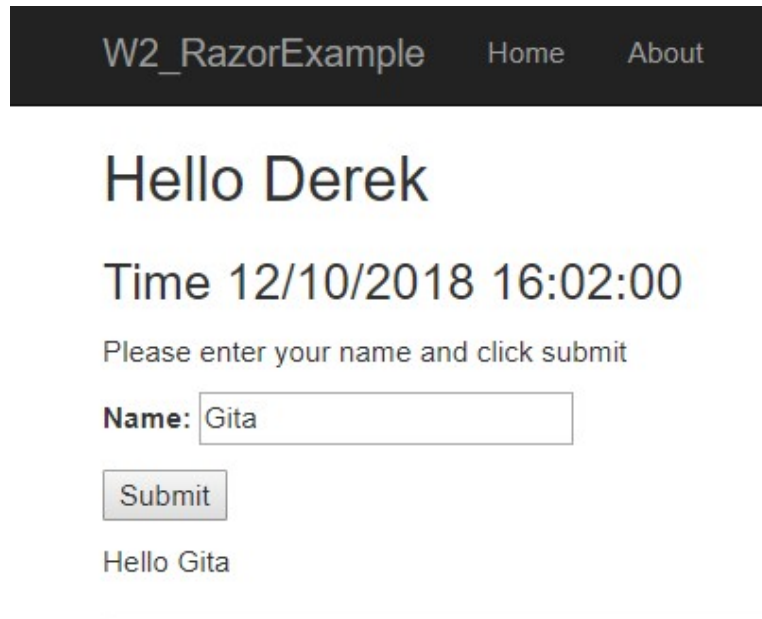
namespace W2_RazorExample.Pages
{
    6 references | 0 changes | 0 authors, 0 changes
    public class HelloModel : PageModel
    {
        public String name;

        0 references | 0 changes | 0 authors, 0 changes | 0 exceptions
        public void OnGet()
        {
        }

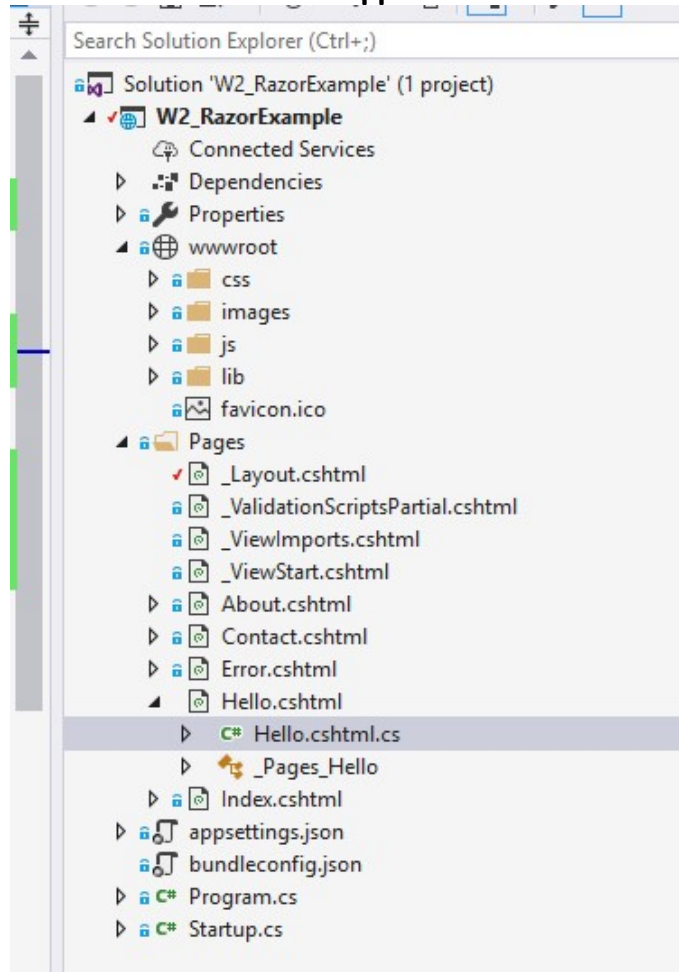
        0 references | 0 changes | 0 authors, 0 changes | 0 exceptions
        public void OnPost()
        {
            this.name = Request.Form["name"];
        }
    }
}

```

Razor Screen Shot



ASP.NET Core Web App Files



Question 3 (1 mark): Explain the difference between client-side code and server-side code.

[INSERT ANSWER HERE]

Question 4 (1 mark): What is the purpose of a database in a web application?

[INSERT ANSWER HERE]

Question 5 (3 marks): Discuss the differences and similarities between ASP.NET Web Forms and ASP.NET Core Razor pages and explain why Razor Pages is more appropriate for modern web application development compared to Web Forms (Include at least 2 references and write at least 200 words)

[INSERT ANSWER HERE]