3.2 Server Controls



This section will guide you to:

* Create an ASP.NET WebForms project in Visual Studio to demonstrate the use of various Server Controls

**Development Environment:**

* Visual Studio 2019 Community Version
* Windows 10

This guide has six subsections, namely:

3.2.1 Creating an ASP.NET MVC project in Visual Studio to demonstrate use of Server Controls

3.2.2 Creating an uploads folder

3.2.3 Adding code to Default.aspx

3.2.4 Building the project

3.2.5 Publishing and running the project

3.2.6 Pushing the code to your GitHub repositories

**Step 3.2.1:** Creating an ASP.NET MVC project in Visual Studio to demonstrate use of Server Controls

* Open Visual Studio.
* From the top menu, select **File->New->Project.**
* In **Create A New Project** screen, select ASP.NET Web Application **(.NET Framework)** from the list of available project types and click on **Next.**
* Enter **Project Name** as Phase3Section3.6 and click on **Create.**
* For further customisation, select **Web Forms** as the subtype of the project from the given list.
* Uncheck **Configure for HTTPS.**
* Click **Create.**
* This will create the files for an ASP.NET WebForms project.

**Step 3.2.2:** Creating an uploads folder

* In the **Solution Explorer,** right click Phase3Section3.6 and choose **Add->New Folder**. Name the folder as uploads.

**Step 3.2.3:** Adding code to Default.aspx

* In the **Solution Explore,** right click **Default.aspx** and choose **View Code.**
* Enter the following code:

**using** System;

**using** System.Collections.Generic;

**using** System.Linq;

**using** System.Web;

**using** System.Web.UI;

**using** System.Web.UI.WebControls;

**namespace** Phase3Section3.\_6

{

**public** partial **class** \_Default : Page

{

**protected** **void** Page\_Load(**object** sender, EventArgs e)

{

}

**protected** **void** ImageButton1\_Click(**object** sender, ImageClickEventArgs e)

{

System.Diagnostics.Process.Start("https://maps.google.com");

}

**protected** **void** FileUpload1\_Load(**object** sender, EventArgs e)

{

}

**private** **void** upload()

{

}

}

}

* In the **Solution Explorer,** double click **Default.aspx**. This will open the page in the designer mode.
* At the bottom of the Designer Window, click on **Source** tab and paste the following script:

<%@ Page Title="Home Page" Language="C#" MasterPageFile="~/Site.Master" AutoEventWireup="true" CodeBehind="Default.aspx.cs" Inherits="Phase3Section3.\_6.\_Default" %>

<asp:Content ID="BodyContent" ContentPlaceHolderID="MainContent" runat="server">

<asp:HiddenField ID="validation\_id" value="14635" runat="server" />

<**div** class="row">

<**div** class="col-12 text-center"><asp:**Label** runat="server" Text="PASSPORT APPLICATION FORM" Font-Bold="true"></asp:**Label**></**div**>

</**div**>

<**div** class="row">

<**div** class="col-6">

<**div** class="row mt-5">

<**div** class="col-4">First Name\*</**div**>

<**div** class="col-7"><asp:TextBox ID="fname" cssClass="form-control" runat="server" MaxLength="100"></asp:TextBox></**div**>

</**div**>

<**div** class="row mt-5">

<**div** class="col-4">Last Name\*</**div**>

<**div** class="col-8"><asp:TextBox ID="lname" cssClass="form-control" runat="server" MaxLength="100"></asp:TextBox></**div**>

</**div**>

<**div** class="row mt-5">

<**div** class="col-4">Date of Birth\*

</**div**>

<**div** class="col-8"><asp:Calendar ID="Calendar1" runat="server"></asp:Calendar></**div**>

</**div**>

<**div** class="row mt-5">

<**div** class="col-4">Current Address\*

</**div**>

<**div** class="col-8">

<asp:ImageButton ID="ImageButton1" runat="server" Height="40"

ImageUrl="https://img.etimg.com/thumb/msid-69170499,width-643,imgsize-50756,resizemode-4/googlemaps1.jpg" ImageAlign="Left" OnClick="ImageButton1\_Click" />

&nbsp;Click on icon to the left to launch Google Maps

</**div**>

</**div**>

</**div**>

<**div** class="col-6">

<**div** class="row mt-5">

<**div** class="col-4">Upload Photo\*</**div**>

<**div** class="col-7">

<asp:FileUpload ID="FileUpload1" runat="server" />

<**hr** />

Sample image below:<**br** />

<asp:Image runat="server" Height="300" Width="300" id="imgUpload" ImageUrl="https://visafoto.com/img/source355x388.jpg"/>

</**div**>

</**div**>

<asp:Panel runat="server" CssClass="bg-info row mt-5">

<**div** class="col-4">Employment Status</**div**>

<**div** class="col-7">

<asp:RadioButton ID="RadioButton1" value="0" runat="server" Text="&nbsp;Unemployed" GroupName="rbGroup"/><**br** />

<asp:RadioButton ID="RadioButton2" value="1" runat="server" Text="&nbsp;Private Company" GroupName="rbGroup"/><**br** />

<asp:RadioButton ID="RadioButton3" value="2" runat="server" Text="&nbsp;Public Company" GroupName="rbGroup"/><**br** />

<asp:RadioButton ID="RadioButton4" value="3" runat="server" Text="&nbsp;Self Employed" GroupName="rbGroup"/><**br** />

<asp:RadioButton ID="RadioButton5" value="4" runat="server" Text="&nbsp;Business" GroupName="rbGroup"/><**br** />

</**div**>

</asp:Panel>

<asp:Panel runat="server" CssClass="bg-info row mt-5">

<**div** class="col-4">Special Status</**div**>

<**div** class="col-7">

<asp:CheckBox ID="CheckBox1" runat="server" Text="&nbsp;Senior Citizen"/><**br** />

<asp:CheckBox ID="CheckBox2" runat="server" Text="&nbsp;Minor"/><**br** />

<asp:CheckBox ID="CheckBox3" runat="server" Text="&nbsp;Armed Forces"/><**br** />

<asp:CheckBox ID="CheckBox4" runat="server" Text="&nbsp;Foreign Diplomat"/><**br** />

</**div**>

</asp:Panel>

</**div**>

</**div**>

<**div** class="row mt-5 border-top">

<**div** class="col-12 text-center">

<asp:**Button** runat="server" ID="btnSubmit" cssClass="btn btn-secondary" Text="Submit" />

</**div**>

</**div**>

</asp:Content>

**Step 3.2.4:** Building the project

* From the top menu, choose **Build->Build Solution.**
* If any compile errors are shown, fix them as required.

**Step 3.2.5:** Publishing and running the project

* From the top menu, select **Debug->Start Without Debugging.**
* This will execute the program in a console window.

**Step 3.2.6:** Pushing the code to your GitHub repositories

Open your command prompt and navigate to the folder where you have created your files.

cd <folder path>

Initialize your repository using the following command:

git init

Add all the files to your git repository using the following command:

git add .

Commit the changes using the following command:

git commit -m “Changes have been committed.”

Push the files to the folder you created initially using the following command:

git push -u origin master