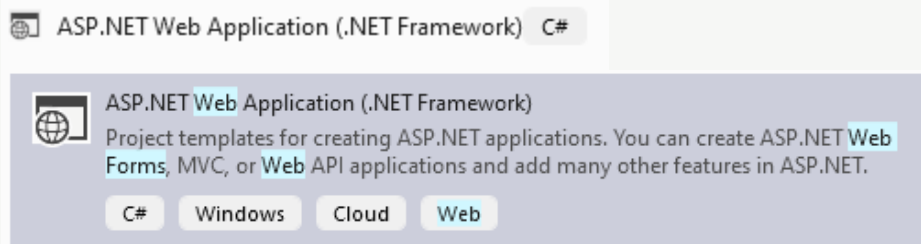


Session 1-Labs

Lab 01 – Create a new Web project

To get a feel for how you create a new web application in Visual Studio 2019, try walking through the following steps. First we'll open the application, pick a location to host it for development, and then add a second web form. Finally, we will see how we can debug the application.

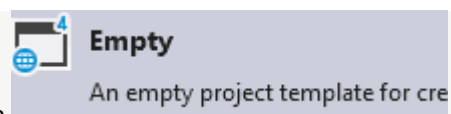
1. Launch Visual Studio 2019. If you selected the Web Development Settings option in Visual Studio 2019, select Create New Project -> ASP.NET Application(.NET Framework)C# ->ASP.NET Web Application (.NET Framework) – as shown below and click on Next button



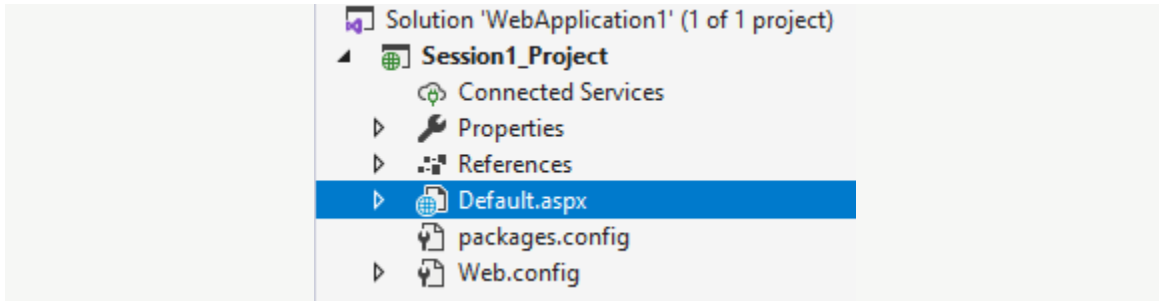
NOTE if the above project type does not appear, enter Web Forms in the search box above the Create anew project Window. DO NOT Select .NET Core types and make sure its C# and NOT Visual Basic

2. Enter your project name , Location and leave the other default settings, click on Create button

3. Select Empty option to create a basic Web application

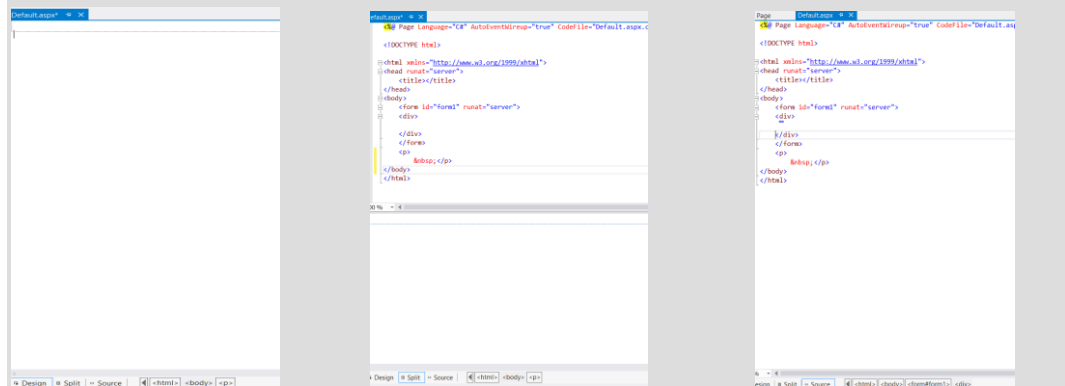


4. Right click on the project icon and add a new web form (see below)-> Add->New Item -> Web Form -> name it Default.aspx ->Add. The page is now included in your web project (see below)



Switching Between Design View, Source View, and Code-Behind View

In Visual Studio 2019, a Web Form is displayed in Source View by default. In Source View, you can modify the various attributes of the form and the controls contained within it. To switch to Design View, click on the Design button at the bottom of the screen. In Design View, you can visually inspect the page and drag and drop controls onto the form. To view the code-behind of the form, you can simply double-click on the form and the code-behind will appear. In Code View, you write your business logic for your application as well as service the events raised by the various controls on the page. The image below shows the 3 different views.



Using the Standard Controls

Lab 02 – Using the Label Control

1. Using the project created in Lab 01, add a Label Control from the tool box to the Default.aspx.

If you cannot see the Toolbox: Select View menu -> Toolbox)

2. select label control and change the Label id property to *lblTime* and the Text property to ""
3. Double click on the form and type the code (in Bold) in the Page_Load event handler;

```
protected void Page_Load(object sender, EventArgs e)
{
    this.lblTime.Text = DateTime.Now.ToString();
}
```

4. Run the application and observe the current time displayed.

Lab 03 – Using the TextBox Control

1. Using the project created in Lab 01, add a new WebForm (Default2.aspx) to the project.
2. Add a three TextBox controls to this page.
3. Set the *id* and *TextMode* property of each of them to the following values:

Id = "txtUserName", TextMode = "SingleLine"

Id = "txtPassword", TextMode="Password"

Id= "txtComments", TextMode="Multiline"

4. Run the application and observe the content of text input. (NOTE since you have two web pages, you can either run this page by right clicking on it and select View in Browser, OR select Set As Start Page.

Lab 04 – Using the CheckBox Control

1. Using the project created in Lab 01, add a new WebForm to the project.
2. Add a *CheckBox* control a *Button* control and a *Label* control to the page as show in the figure below.



3. Set the following control properties:

For CheckBox:

Id = chkNewsLetter

Text = Receive Newsletter?

For Button:

Text = Submit

Id = btnSubmit

For Label:

Text = ""

Id = lblResult

4. Double click on the Button to view the Button_Click Event handler

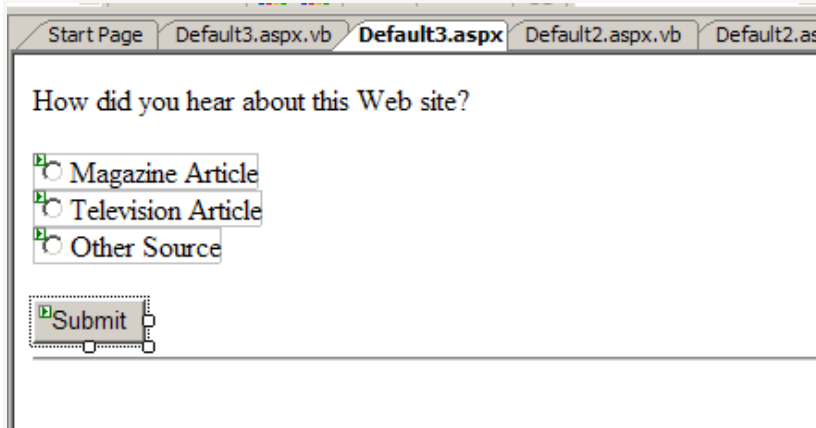
5. Type the following code (IN BOLD) in this event:

```
protected void btnSubmit_Click(object sender, EventArgs e)
{
lblResult.Text = chkNewsLetter.Checked.ToString();
}
```

6. Run the application , click on the button with the check box selected and unselected.

Lab 05 – Using the RadioButton Control

1. Using the project created in Lab 01, add a new WebForm to the project.
2. Add a three *RadioButton* controls, a *Button* control and a *Label* control to the page as shown below:



3. Set the following properties for the controls :

RadioButton1

Text = Magazine Article

Id = rdIMagazine

GroupName = Source

RadioButton2

Text =Television Program

Id = rdITelevision

GroupName = Source

RadioButton3

Text = Other Source

Id = rdIOther

GroupName= Source

Button

```
id = btnSubmit
```

```
Text = Submit
```

Label

```
Id = lblResult
```

```
Text = ""
```

4. Add the following code to the btnSubmit event handler

```
protected void btnSubmit_Click(object sender, EventArgs e)
{
    if(rdlMagazine.Checked) {
        this.lblResult.Text = rdlMagazine.Text;
    }
    if( rdlTelevision.Checked) {
        lblResult.Text = rdlTelevision.Text;
    }
    if(rdlOther.Checked ) {
        lblResult.Text = rdlOther.Text;
    }
}
```

5. Run the application, select an option and Submit.

Lab 06 – Creating a Registration Page

6. Using the project created in Lab 01, add a new WebForm to the project.
7. Create the following page using the correct controls from the Toolbox:

Registration Form

Name

Address

Telephone

Email

Select Magazines

- ☐ Time
- ☐ New Scientist
- ☐ ASP.NET Developers Journal
- ☐ Dr Dobbs Journal
- ☐ PDA Essentials

Select Delivery Mode

- ☐ Courier
- ☐ Regular Postage
- ☐ Express Delivery

You Slected The FOolowing Options:

8. When you click on the submit button the information entered into the above Form must be displayed at the bottom of the page.