

**Module**Web  
Solutions  
Development**Module Code**

IT5035FP

**Duration**

5 hours

# LABSHEET 3

**Title:** Visualize User Interface**Objective(s):**

- Create Responsive Web site

**Tools, Equipment and Materials:**

- 1 Visual Studio
- 2 Bootstrap extension

**Instructions:****Part A**

1 Install Visual Studio IDE (if required).



Online documentation to Install Visual Studio:

<https://docs.microsoft.com/en-sg/visualstudio/install/install-visual-studio?view=vs-2017>

Alternate link to download VS 2017

<https://visualstudio.microsoft.com/downloads/>

Select the following workloads during installation:

	<b>.NET desktop development</b> Build WPF, Windows Forms and console applications using the .NET Framework.	<input checked="" type="checkbox"/>
	<b>ASP.NET and web development</b> Build web applications using ASP.NET, ASP.NET Core, HTML, JavaScript, and CSS.	<input checked="" type="checkbox"/>
	<b>Data storage and processing</b> Connect, develop and test data solutions using SQL Server, Azure Data Lake, Hadoop or Azure ML.	<input checked="" type="checkbox"/>
	<b>.NET Core cross-platform development</b> Build cross-platform applications using .NET Core, ASP.NET Core, HTML, JavaScript, and CSS	<input checked="" type="checkbox"/>

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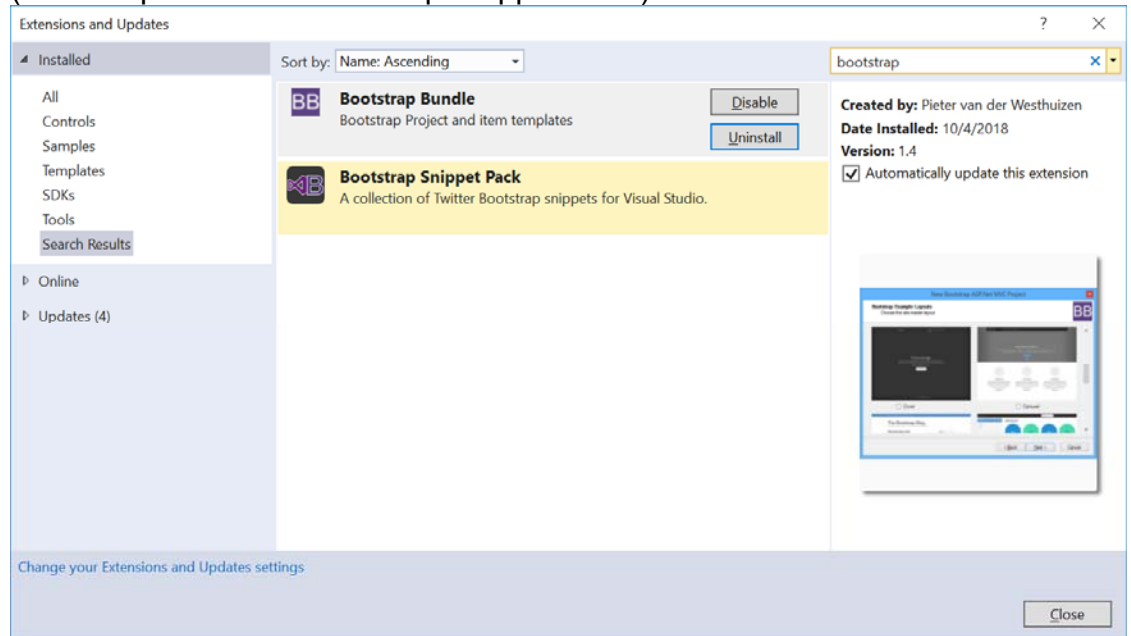
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### 2 From within Visual Studio, Install Bootstrap extension for Visual Studio (Bootstrap Bundle & Bootstrap Snippet Pack)



### 3 Online documentation on using Visual Studio IDE:

<https://docs.microsoft.com/en-sg/visualstudio/get-started/visual-studio-ide?view=vs-2017>

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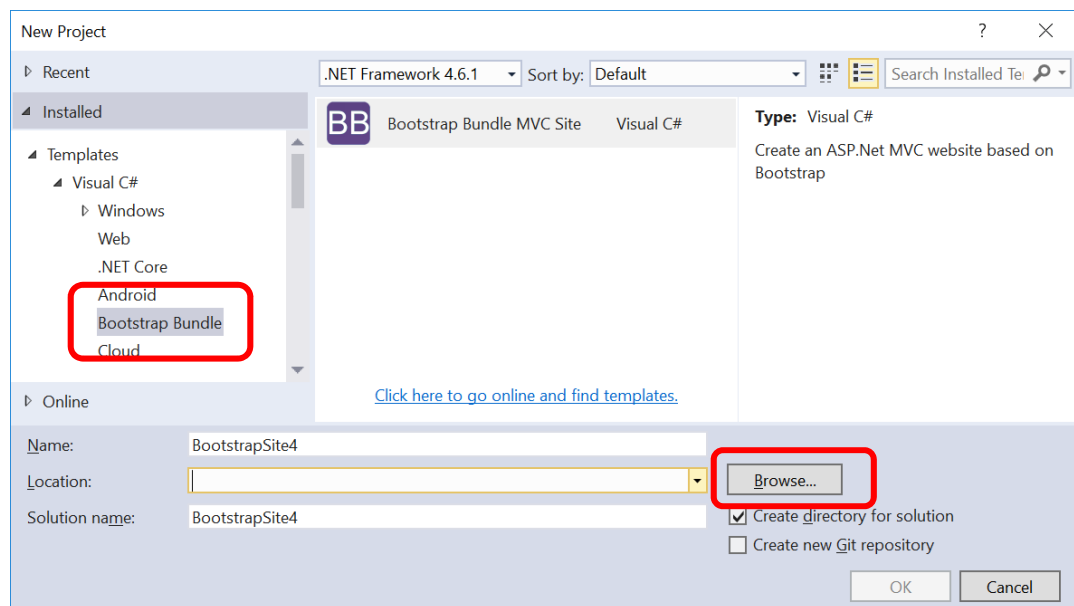
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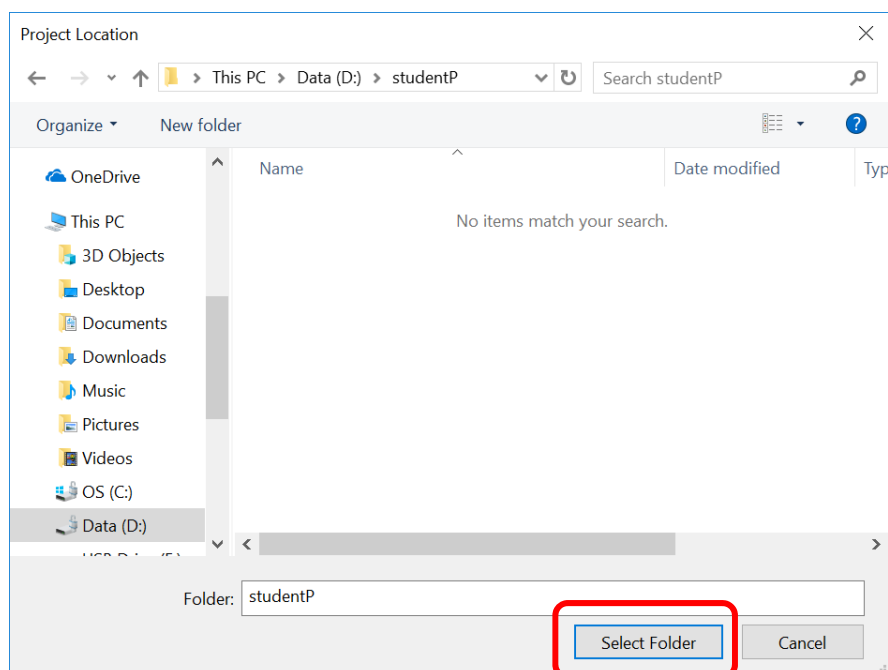
**Part B**

This exercise Create a Web site using Bootstrap extension.

1. **Launch** Visual Studio, and then **File>New>Project** and
2. **Select** Visual c#> Bootstrap Bundle



3. **Click** Browse.. for the Location



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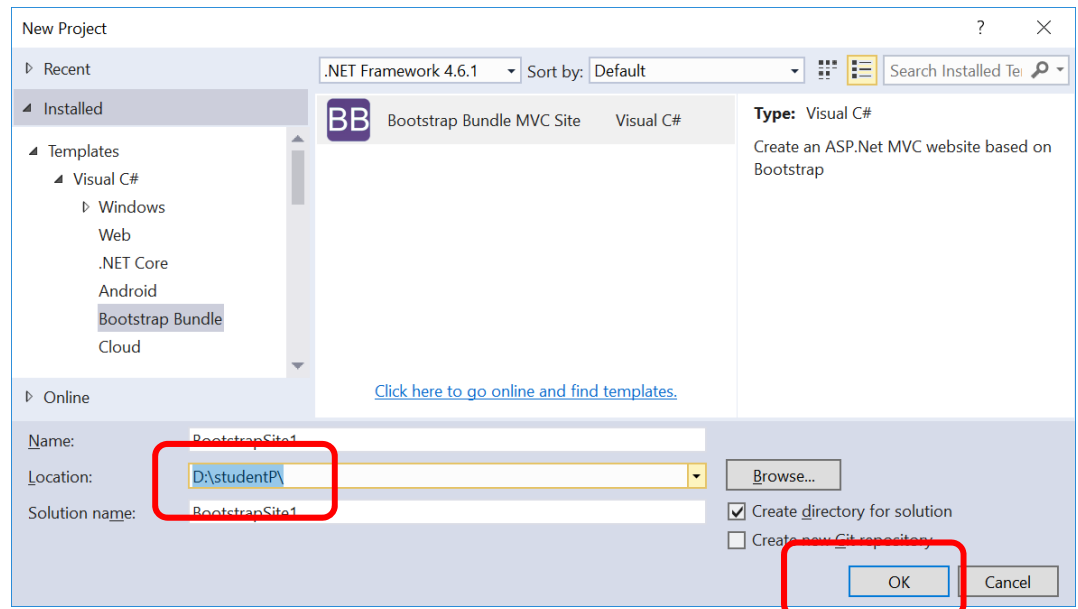
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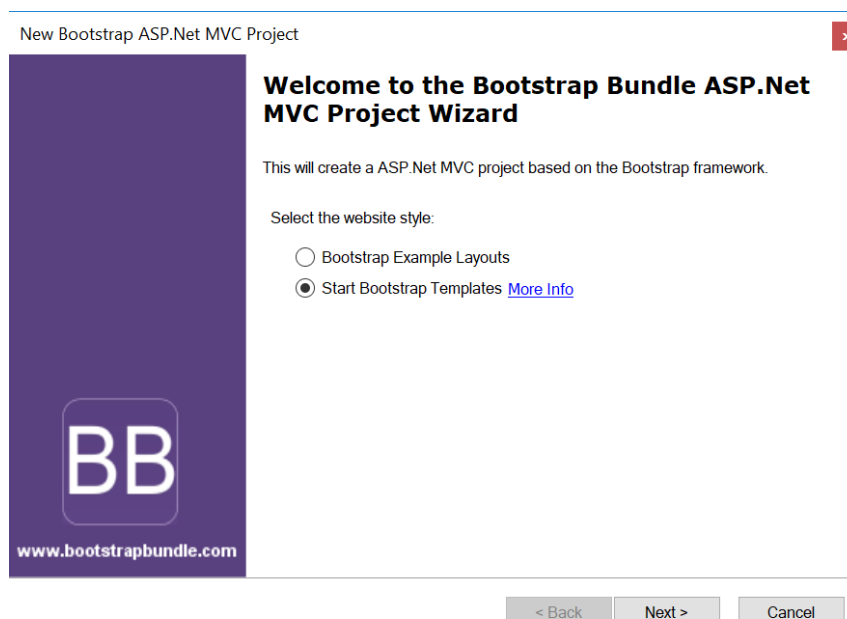
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- In the project location menu, **Find** Data D: Drive and the StudentP folder and select it.



- Click OK

- Select** Start Bootstrap Template and Click **Next**



- Click** Next

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New Bootstrap ASP.Net MVC Project

**Donate**

Help support further development

**Be a pal and support further development**

Bootstrap Bundle was developed by one guy in his free time. Donating a few cents will help with the further development and improvement of Bootstrap Bundle.

So what do you say? Be a pal and hit the button below to donate any amount of your choice.



&lt; Back

Next &gt;

Cancel

**8. Click Next**

New Bootstrap ASP.Net MVC Project

**Start Bootstrap Theme**

Choose the Start Bootstrap Theme for your site

**Full Websites**☒ Business Casual☐ Modern Business

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Cancel

**9. Select the Theme and Click Next**

10. Enter 'Responsive Web Site' in the Title and the required information in the humantxt and Click Next.

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**Module**

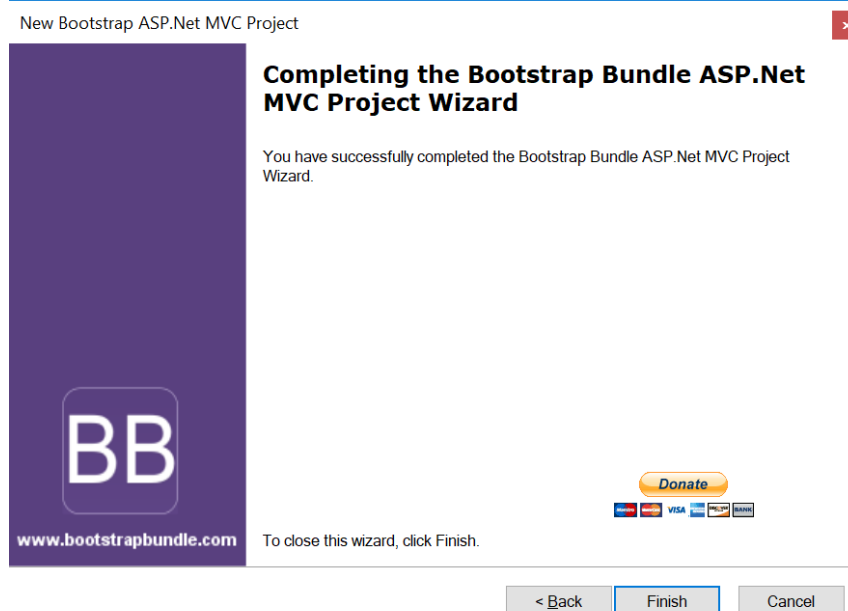
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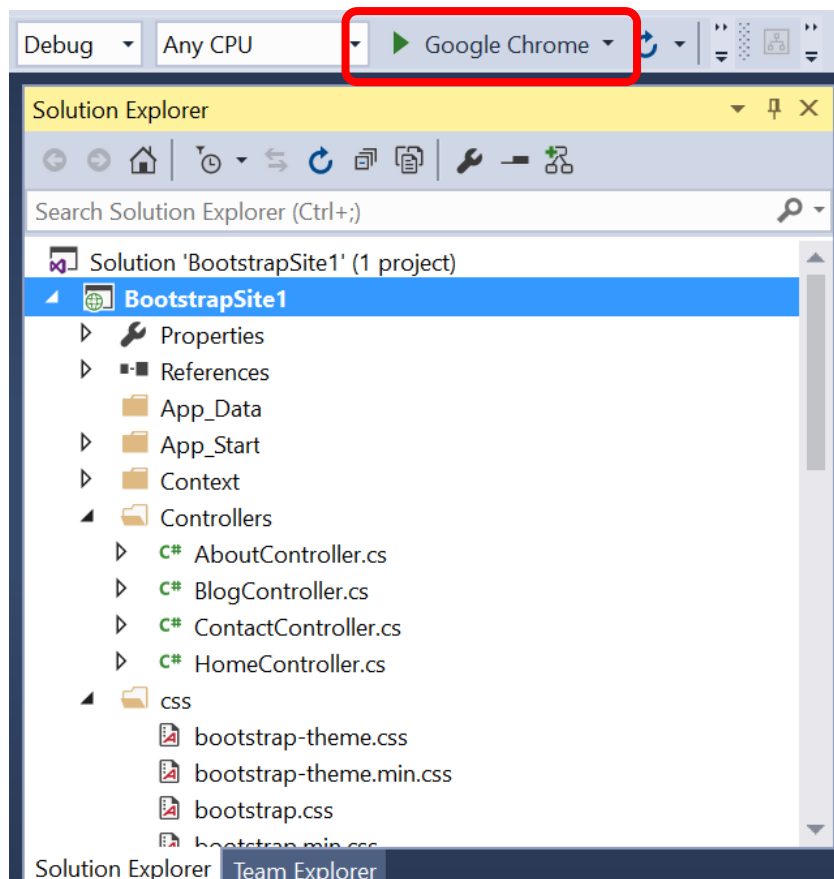
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11. Click **Finish**. And the pages will be generated.
12. Click Run Button from the Visual Studio Debug Menu



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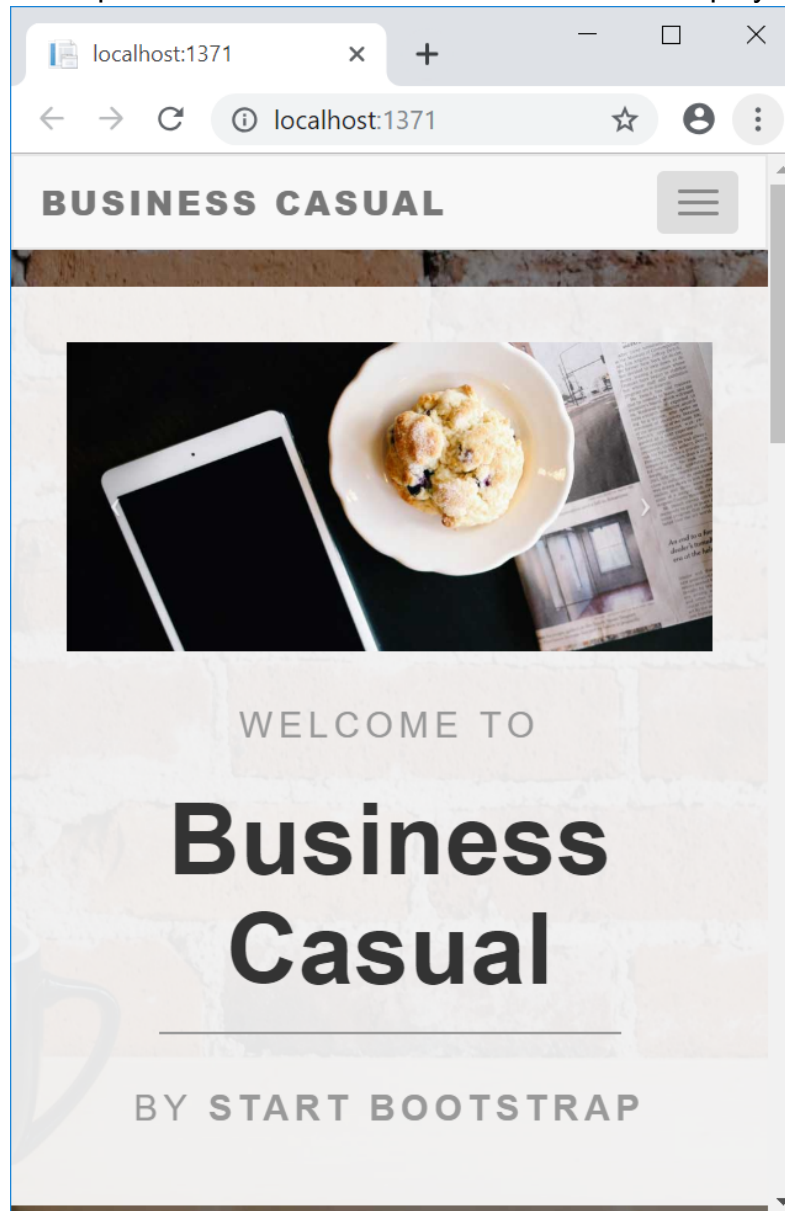
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13. A Responsive Web site has been created and displayed.



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## Part C

In this exercise, Create another new Web site using Bootstrap extension. Repeat steps as in Part B. But this time, Select *Bootstrap Example Layouts* when you arrived at the screen as shown here:

### 1. Select *Bootstrap Example Layouts* as shown here

### 2. Click Next

### 3. Click Next. Select one of the many types of Bootstrap example layouts as shown here:



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New Bootstrap ASP.Net MVC Project

**Bootstrap Example Layouts**  
Choose the site master layout



Bootstrap starter template

Use this document as a way to quickly start any new project. All you get is this text and a ready-to-use HTML document.

Buttons

Default Buttons: Default, Primary, Success, Info, Warning, Danger, Link

Buttons: Default, Primary, Success, Info, Warning, Danger, Link

Thumbnails

Starter Template

Bootstrap Theme

Project name: [text box] [Next] [Cancel]

Jumbotron heading

[< Back] [Next >] [Cancel]

4. Click Next and a New Web site is created.
5. Customize the content by adding or changing images, altering the descriptive text of the Web site.
6. Submit your completed files in a folder via MyConnexion Chapter 03 Discussion Board.

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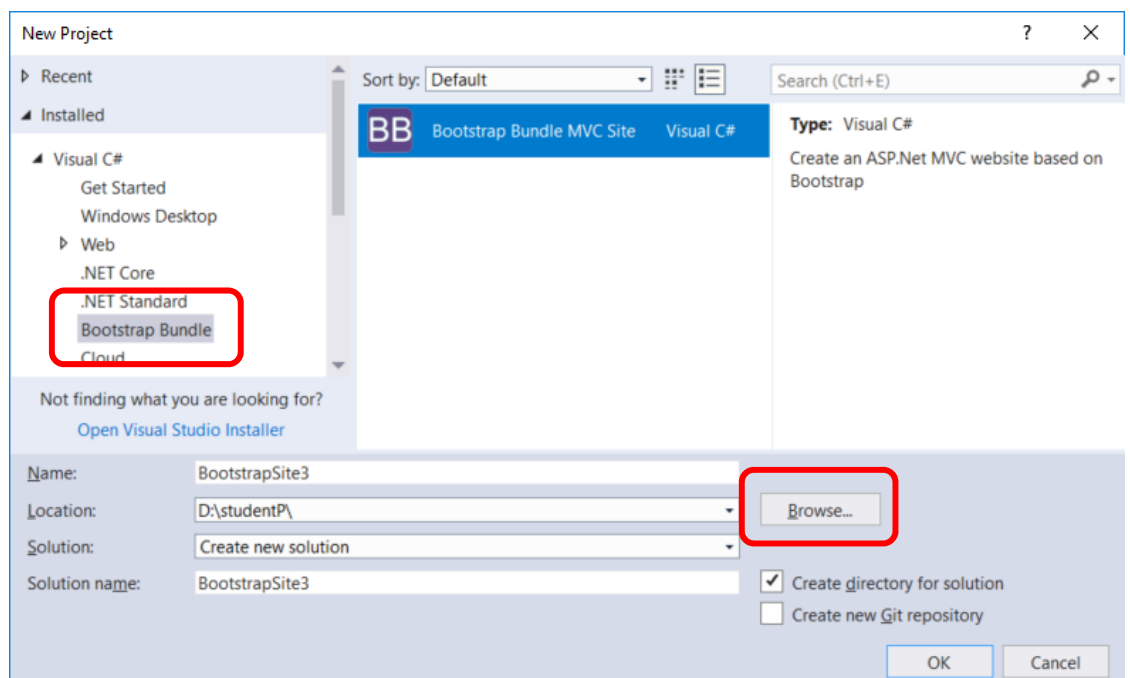
5 hours

### PART D

#### Customizing A Web site prototype

This lab exercise create and customize Bootstrap Web site prototype.

1. **Launch** Visual Studio, and then **File>New>Project** and
2. **Select** Visual c#>Bootstrap Bundle
3. **Click** Browse.. for Data Drive D and find StudentP directory



4. Select StudentP directory

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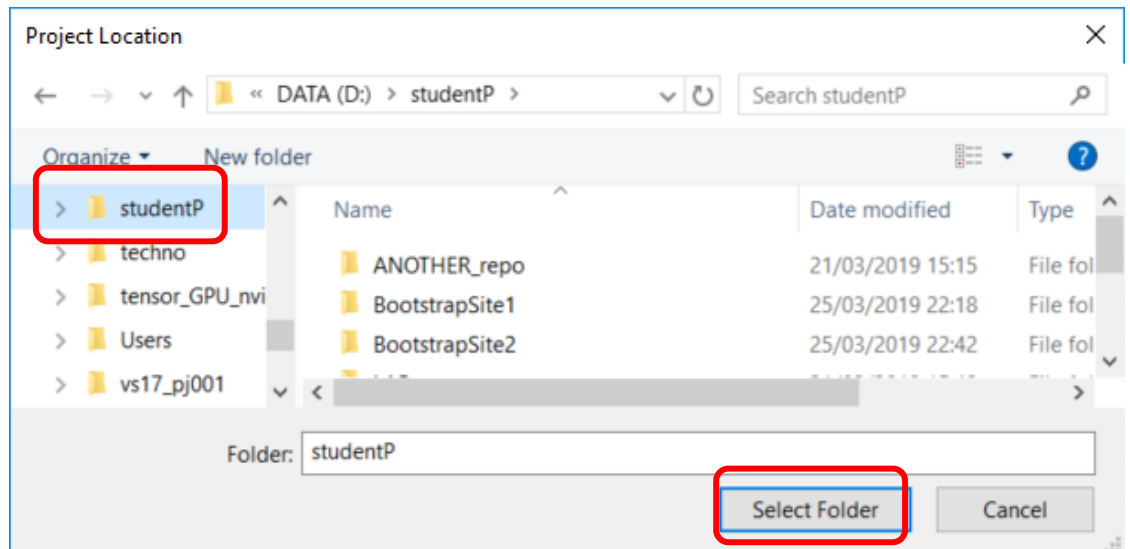
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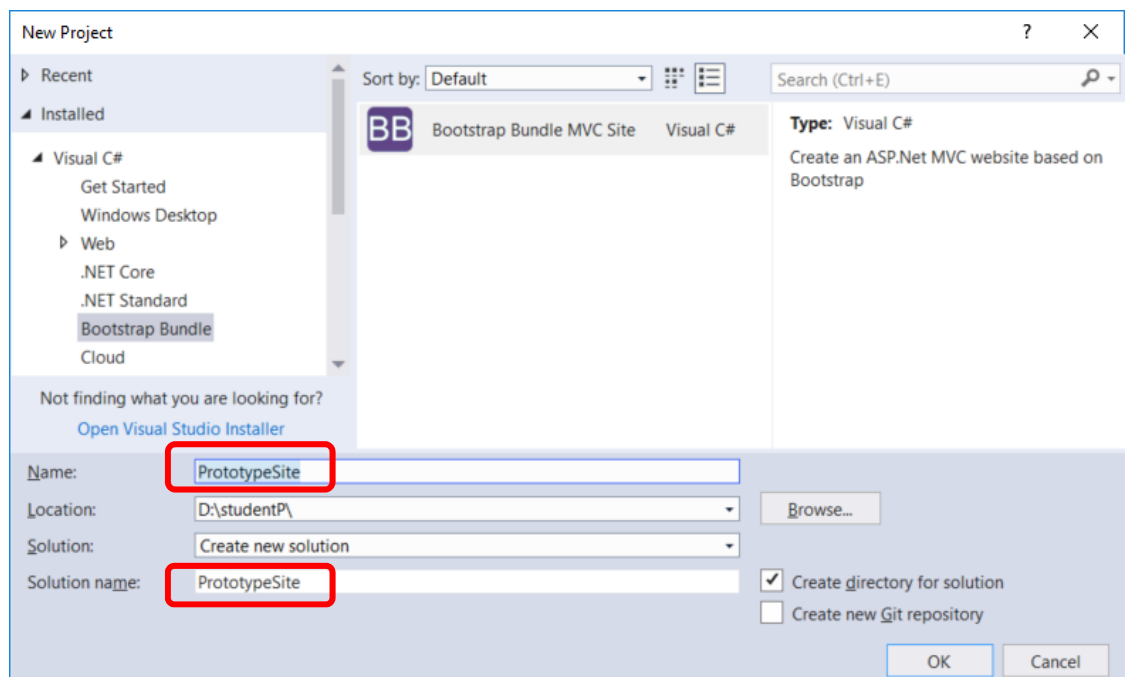
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5. Type in the Name as **PrototypeSite** and click **OK**



6. Select Start Bootstrap Templates and click Next

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New Bootstrap ASP.Net MVC Project

x

## Welcome to the Bootstrap Bundle ASP.Net MVC Project Wizard

This will create a ASP.Net MVC project based on the Bootstrap framework.

Select the website style:

- ☐ Bootstrap Example Layouts
- ☒ Start Bootstrap Templates [More Info](#)

BB

www.bootstrapbundle.com

&lt; Back

Next &gt;

Cancel

7. Select Modern Business and Click Next.

New Bootstrap ASP.Net MVC Project

x

### Start Bootstrap Theme

Choose the Start Bootstrap Theme for your site

BB

#### Full Websites

☐ Business Casual☒ Modern Business

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Cancel

8. Choose controllers / views to add by selecting the check box. Click Next.

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New Bootstrap ASP.Net MVC Project

**Modern Business**

Select which pages to include in this template

**Choose which controllers/views to add:**☒ About ☒ Services ☒ Contact☐ Portfolio

- ☐ 1 Column Portfolio
- ☐ 2 Column Portfolio
- ☐ 3 Column Portfolio
- ☐ 4 Column Portfolio
- ☐ Single Portfolio Item

☒ Other Pages

- ☐ Full Width Page
- ☐ Sidebar Page
- ☐ FAQ
- ☐ 404
- ☒ Pricing Table

☐ Blog

- ☐ Blog Home 1
- ☐ Blog Home 2
- ☐ Blog Post

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Cancel

## 9. Select a Theme and click Next

New Bootstrap ASP.Net MVC Project

**Bootswatch Theme**

Choose the color theme for your site



Theme: Simplex

Mini and minimalist



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## 10. Type in your preferred Site Title and humans.txt , click Next and Click Finish.

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New Bootstrap ASP.Net MVC Project

### Site Properties

Set the site settings and properties



Site Title:

humans.txt ☐ Include

```

/* TEAM */
Your title: Your name.
Site: email, link to a contact form, etc.
Twitter: your Twitter username.
Location: City, Country.

/* THANKS */
Name: name or url

/* SITE */

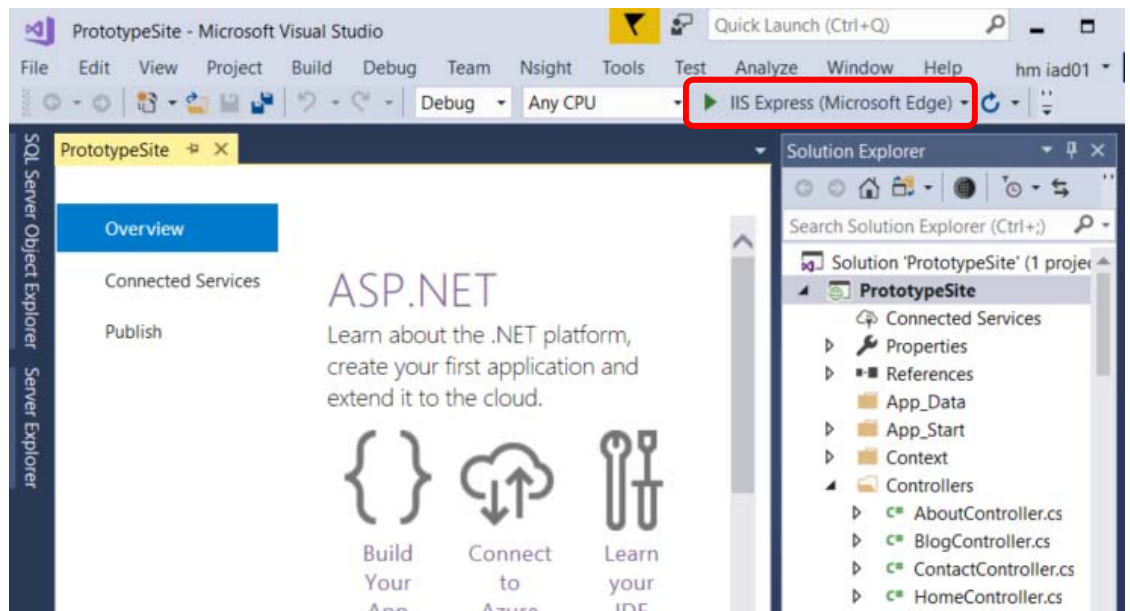
```

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Cancel

11. Click RUN or press F5 to view the Web site.



12. Customize the Web site by adding images and change the content accordingly to match its Theme or Business nature.

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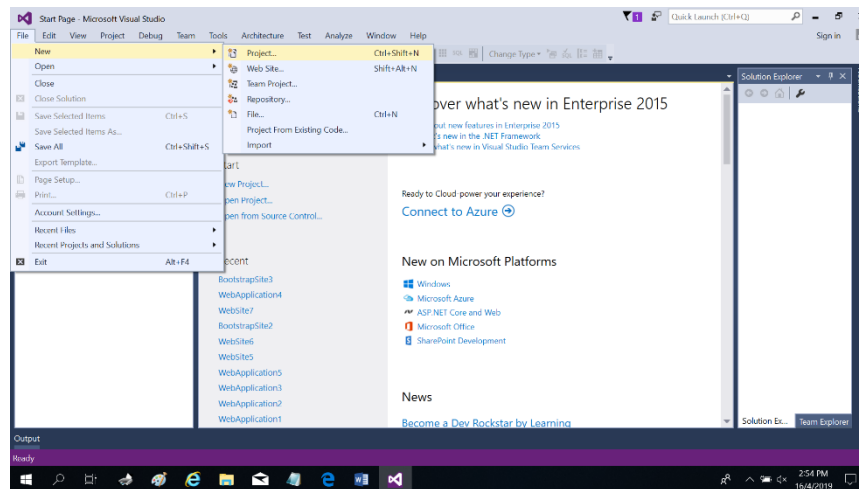
## Duration

5 hours

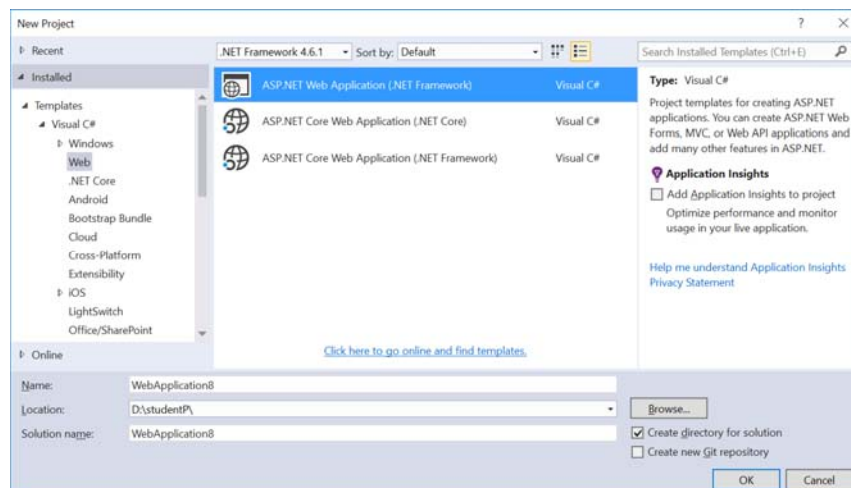
## PART E

This exercise Create a Web site using Bootstrap snippets extension.

### 1. Launch Visual Studio, and then **File>New>Project**



2. **Select Web > Installed Templates > Visual C# > >Web >ASP.net (core) Web Application**
3. Browse to an **appropriate directory and OK.**



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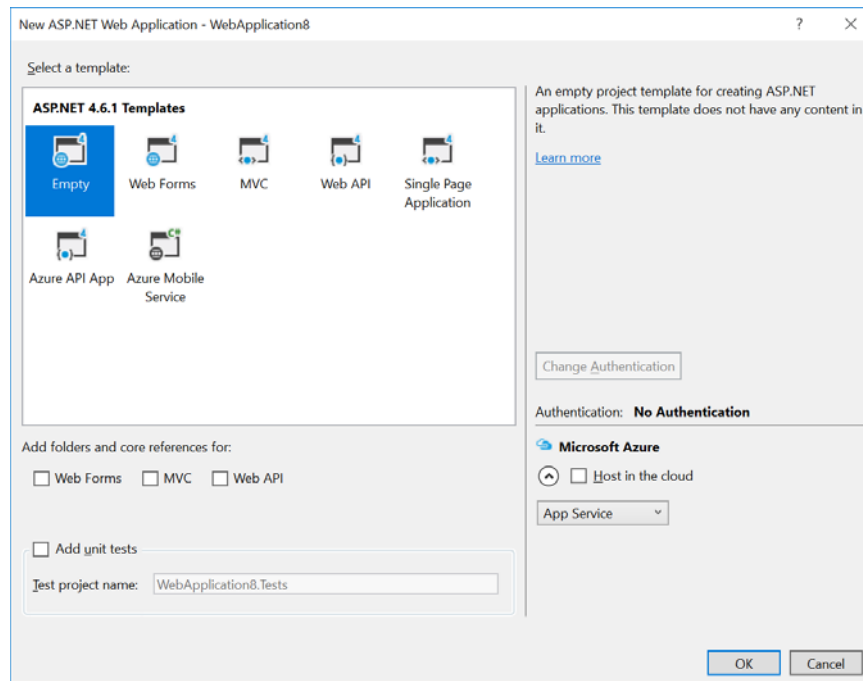
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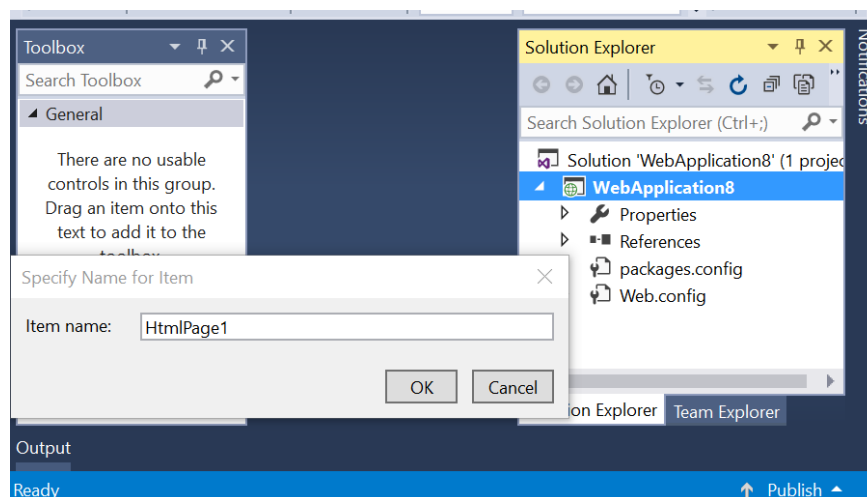
5 hours

### 4. Select **Empty** (Web Site) > OK



### 5. Right click on the **WebApplication** and **Select Add HTML Page**

### 6. **Specify the name** for item (e.g item name = index) > click **OK**



7. From the code view of the new Web page, Bootstrap Snippets shall appear in the ToolBox. Expand the Bootstrap snippets in the toolbox reveal a list of available BS components that could be used.

8. **Delete** all the existing html codes form the newly created Web file



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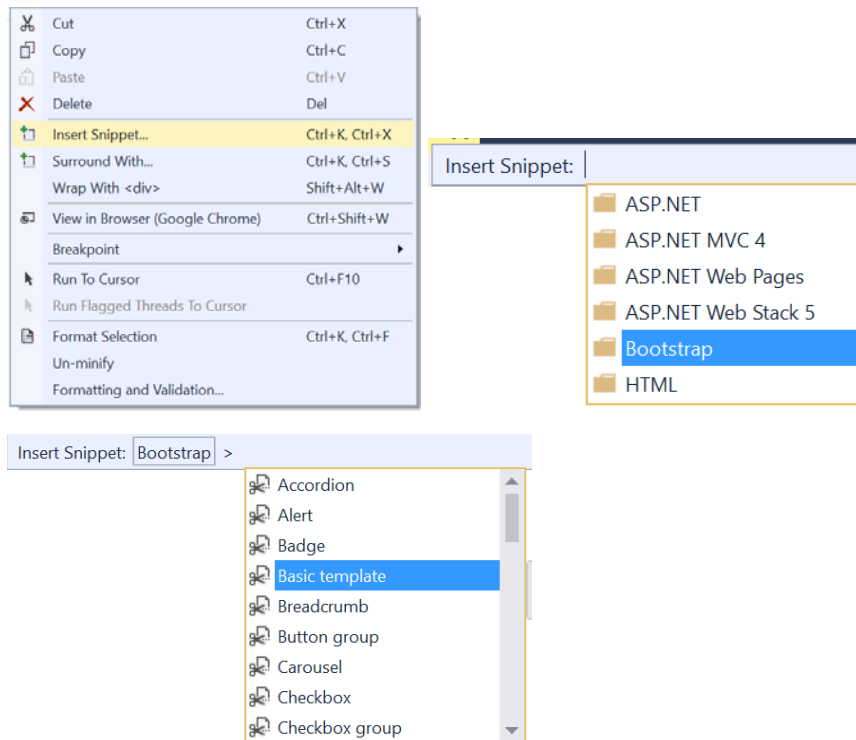
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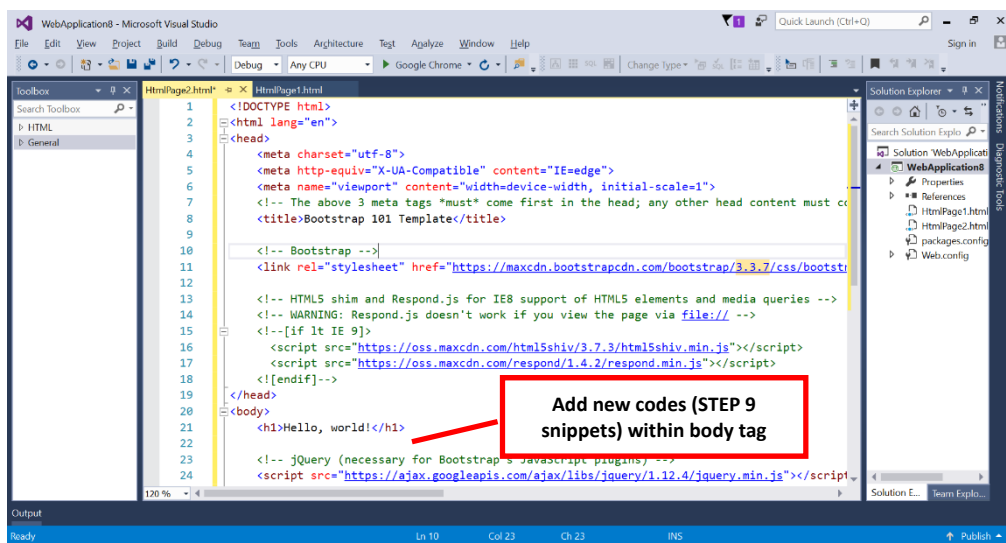
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- Position the cursor at the top of Web page and Right click > Insert Snippet > Bootstrap > Basic Template



- A block of basic bootstrap html code with the required linked JS and CSS libraries are inserted onto the Web file.
- Click RUN (F5)** and a Web browser will be launched to show the Web page. {note : if the Page does not show properly , **Right click**



the Web file from **solution explorer** and **Select** browse with.. / View in Browser Google Chrome}

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12. Try **adding** more BS elements using Bootstrap snippets (STEP 9). Execute to see the effect.

-END