NGEE ANN
SCHOOL OF INFOCOMM TECHNOLOGY

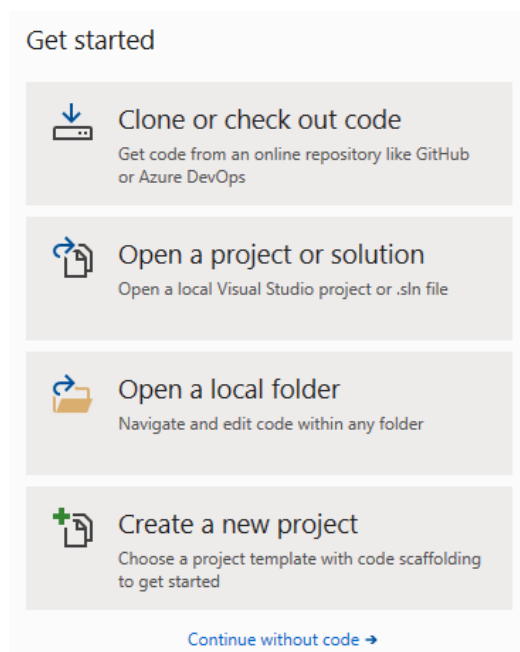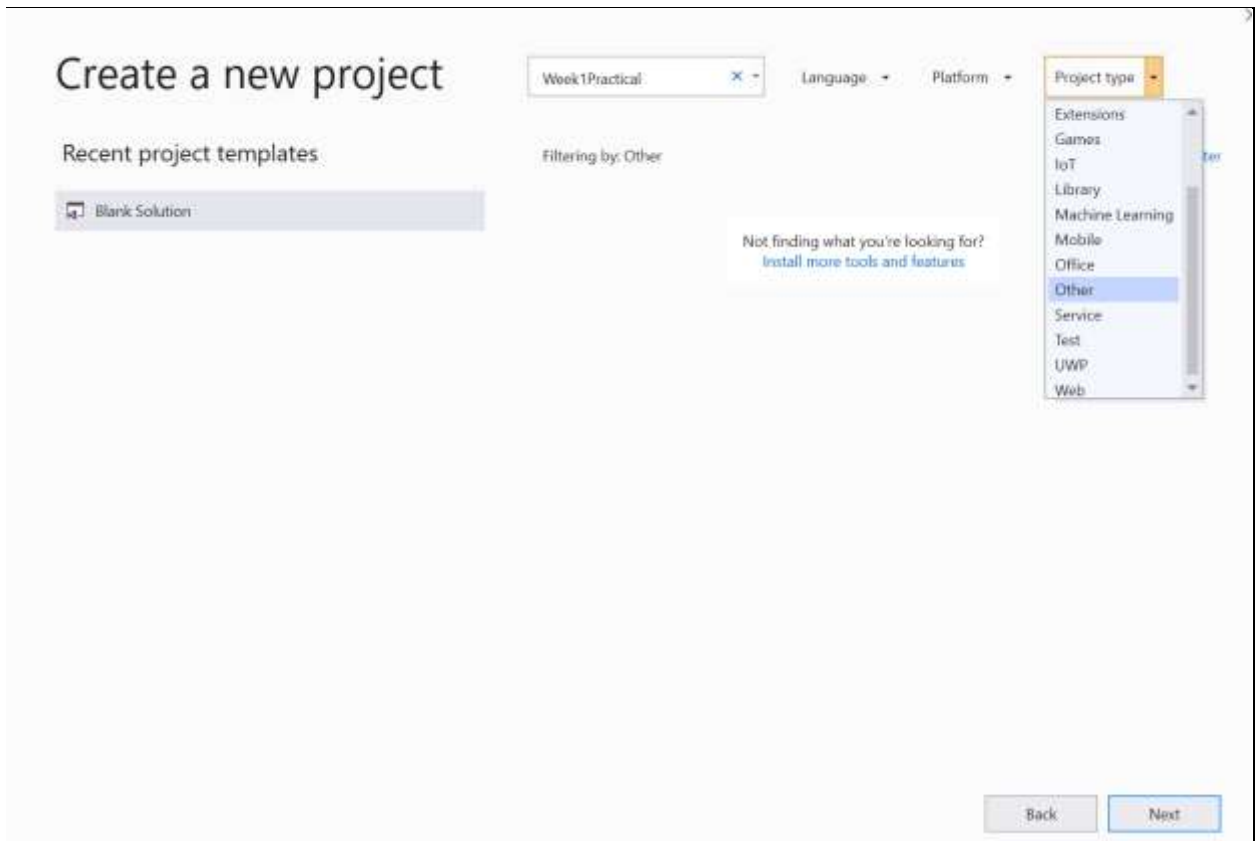| Front End Development	Week **1**
Diploma in CSF 2021/22 Semester 2	2 Hours
Creating a Web Page using Structural HTML Elements	

Activities

Materials

- Download the following files from MEL :-
    - HTML5Badge.png
    - HTML5Badge.ico

Task 1: Creating a web page from scratch

1. Launch Visual Studio.

Get started

↓ Clone or check out code
Get code from an online repository like GitHub
or Azure DevOps

↗ Open a project or solution
Open a local Visual Studio project or .sln file

↗ Open a local folder
Navigate and edit code within any folder

➕ Create a new project
Choose a project template with code scaffolding
to get started

Continue without code →

2. Create a new project and name it as **Week1_Exercise**. Under **Project type** drop-down menu, select **Other**
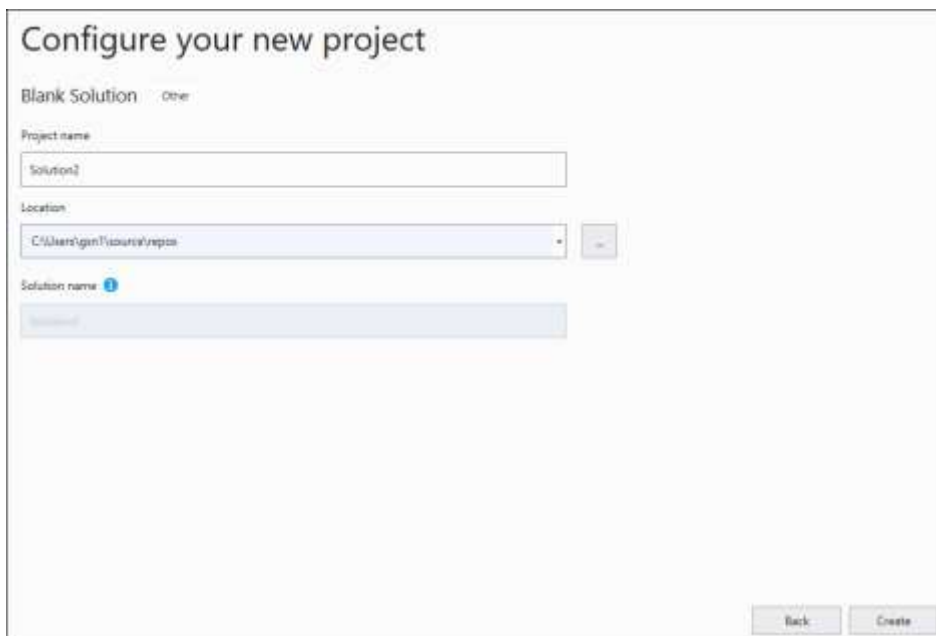
3. Click **Next**

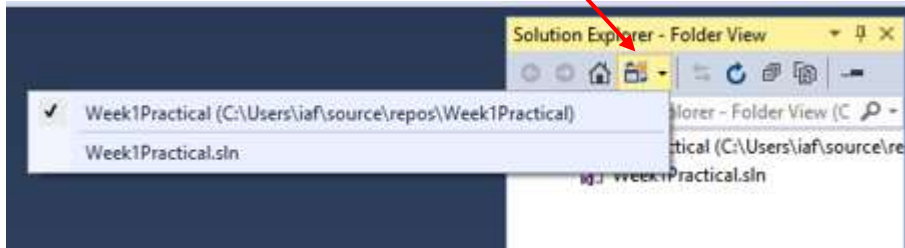   The default location is C:\Users\Your Name\source\repos. You may change the location to a folder of your choice.

4. Enter Project name as **Week1_Exercise**

5. Click **Create**

6. Click <u>Solutions and Folders button</u> in the Solutions Explorer and select Week1_Exercise as shown below.

7. Create a new folder named **images** within the project and add the image files HTML5Badge.png and HTML5Badge.ico into this folder.
   - Right click Week1_Exercise in the solution Explorer.
   - Select Add → New Folder.
   - Name the folder as images.
   - Right click anywhere in the Solution Explorer and select Open Folder in File Explorer.
   - Copy and paste the two image files to this folder.

8. Add a new HTML page and name it as **index.html**.

   It is common practice to name the first page of a website as <u>index.html</u>. Click the link to read about "Understanding the Index.html Page on a Website".

   - Right click the 'Week1_Exercise' in the solution Explorer.
   - Select Add → New Item.
   - Select HTML Page and click Open.
   - Name the file as **index.html**.
   - Use all lower case.

9. Enter the meta tags for author and description in the <head> element.

   ```
   <meta name="author" content="Your name" />
   <meta name="description" content="Week 1 Exercise" />
   ```

10. Type the title as "Week 1 Exercise".

11. Type the following link tag in the <head> element.

    ```
    <link rel="icon" type="image/x-icon" href="images/HTMLBadge.ico" />
    ```

    This adds the favicon that is displayed next to the page's title on the browser.

12. In the body enter a <header> element and type the following within it.

    <h1>HTML5</h1>
    <figure>

        <figcaption>Official HTML5 Logo</figcaption>
    </figure>

13. Save the file and view in browser.
    a. Ensure the cursor is in the workspace
    b. Click File → View in Browser.
       Use Google Chrome as the default browser.
       You can set the default browser as follows:
       ▪ File → Browse With…
       ▪ Select Google Chrome
       ▪ Click **Set as Default** button.

14. Next enter a <section> element and type the HTML code to create the following lists within the section. Use <h2> for the headings.

Textbook Topics

- HTML
- CSS
- JavaScript

HTML Chapters

4. Structural Elements
5. Text Elements

6. Table Elements
7. Embedded Elements
8. Form Elements

15. Type the following code below the lists.

```
<h3>Download the book from the link below.</h3>
<iframe src="https://en.wikipedia.org/wiki/Book" width="100%" height="400">
     <p>Your browser does not support iframes</p>
</iframe>
```

This creates an inline frame to embed the website with specified dimensions. The statement Your browser does not support iframes will be displayed if the web browser does not support iframes.

Notice that you can scroll the web page within the inline frame.

16. Save the file and view in browser to see how it looks now.

17. Create another <section> element and write the code to display the following:

Popular Web Browsers

▼ The most used browsers today are:

Google Chrome
    Google Chrome is a free, open-source web browser developed by Google, released in 2008.
Mozilla Firefox
    Firefox is a free, open-source web browser from Mozilla, released in 2004.
Microsoft Edge
    Microsoft Edge is a free web browser from Microsoft, released in 2016.

- Use <h2> for the heading.
- Create a collapsible section using description list <dl> to display the information about the browsers.

When collapsed it should look as shown below.

Popular Web Browsers

▶ The most used browsers today are:

18. Next create a <footer> element and within it an <address> element to display the following.

Developed by [Your name](#)

- Type your name in place of *[Your name](#)*.
- Use mailto: to link to your email address when your name is clicked.

19. Save the file and view in browser to see how it looks now.

== End of Exercise ==