



**Fakulti Sains Komputer dan Teknologi Maklumat
Universiti Tun Hussein Onn Malaysia**

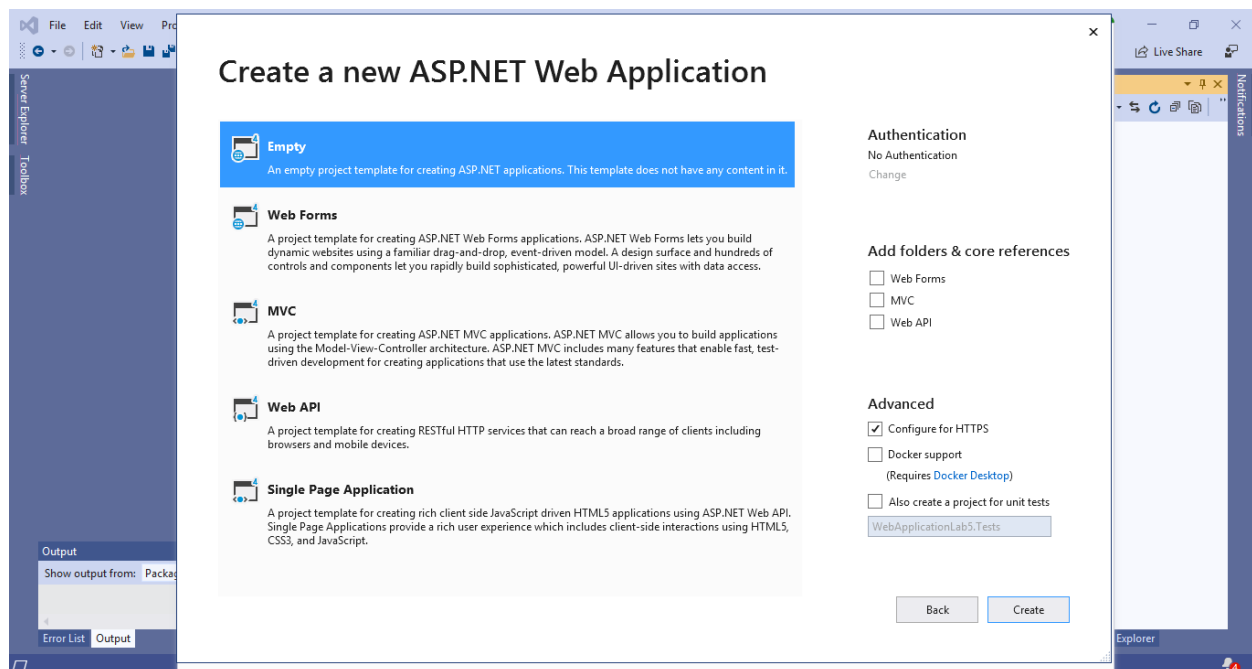
LABORATORY 5

This laboratory exercise is about using Master Page and Content Page; and using validator.

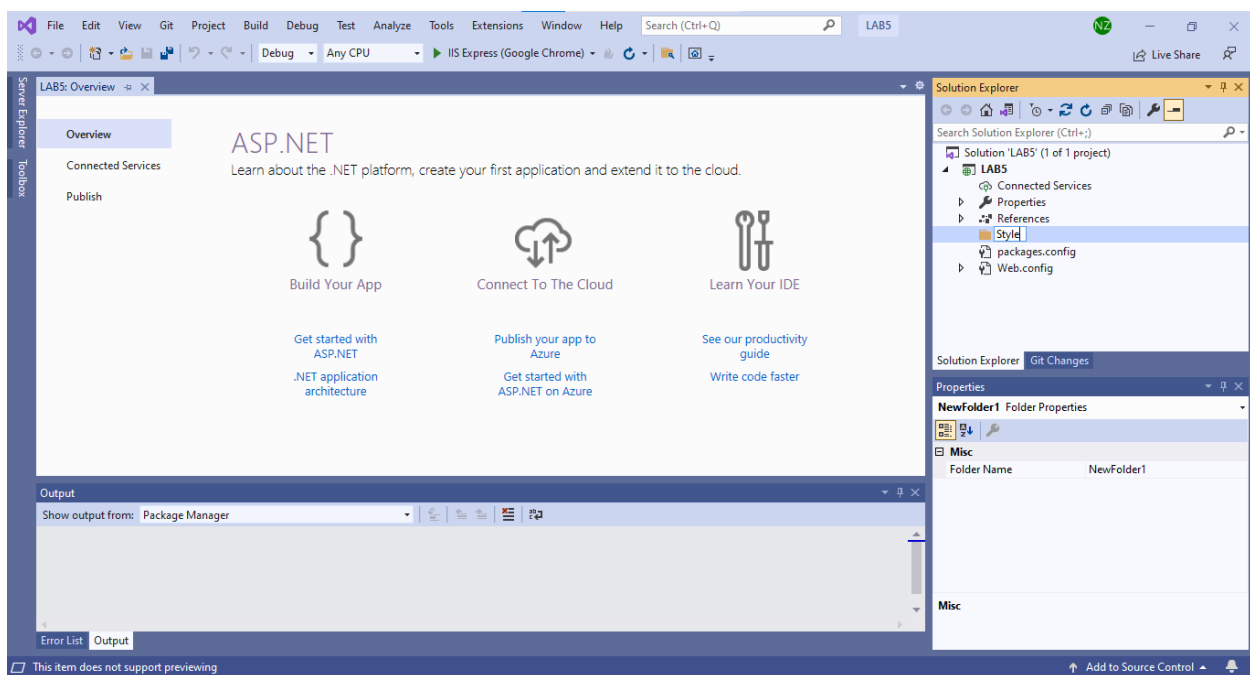
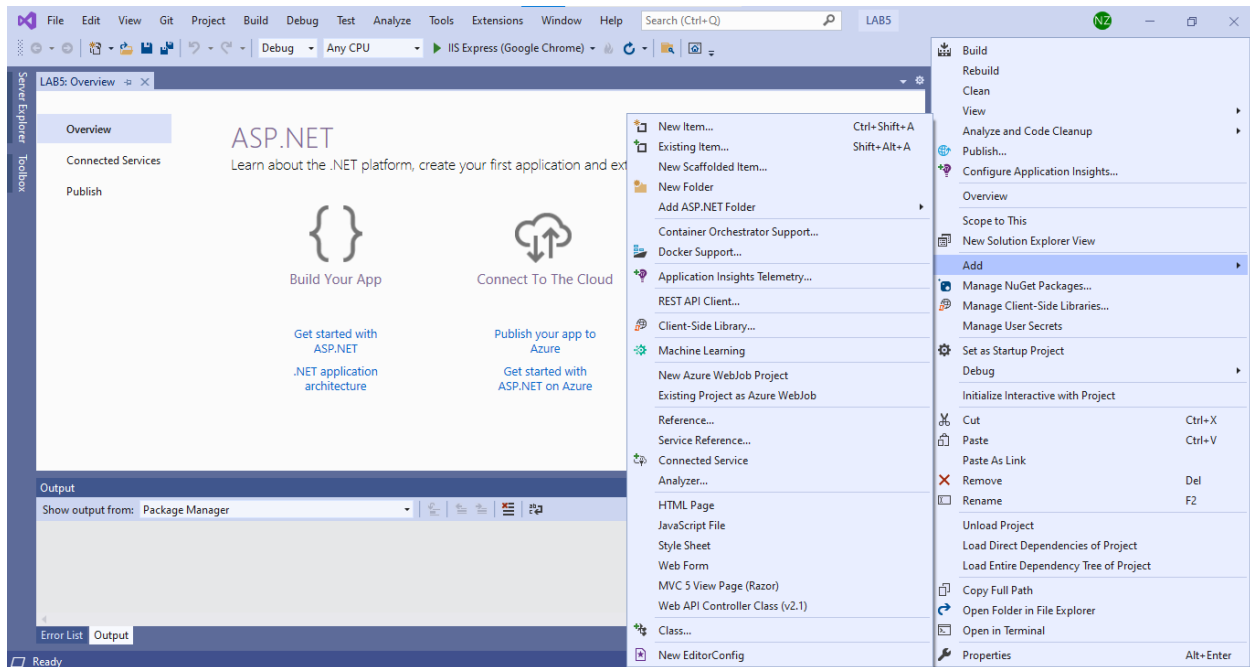
A. Creating Master Page

Using Master Page is get the feel and look of consistent pages across our website, i.e., having the same template for all our pages except for the content.

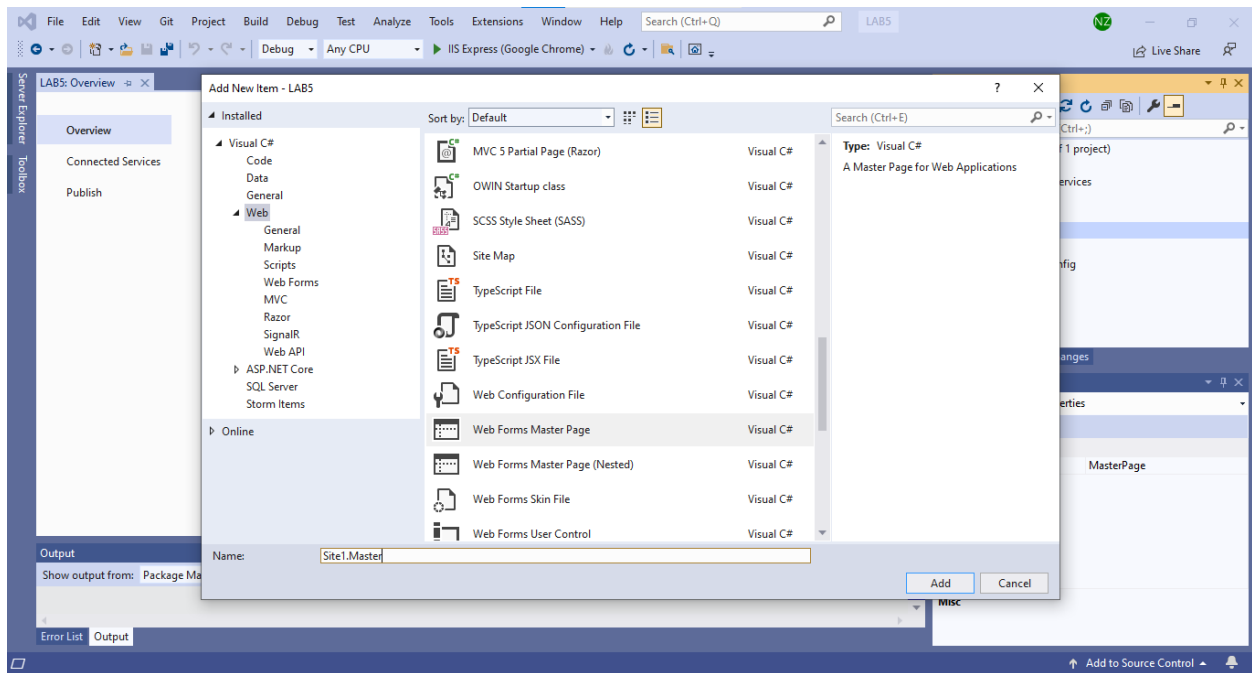
1. Create new empty web sites



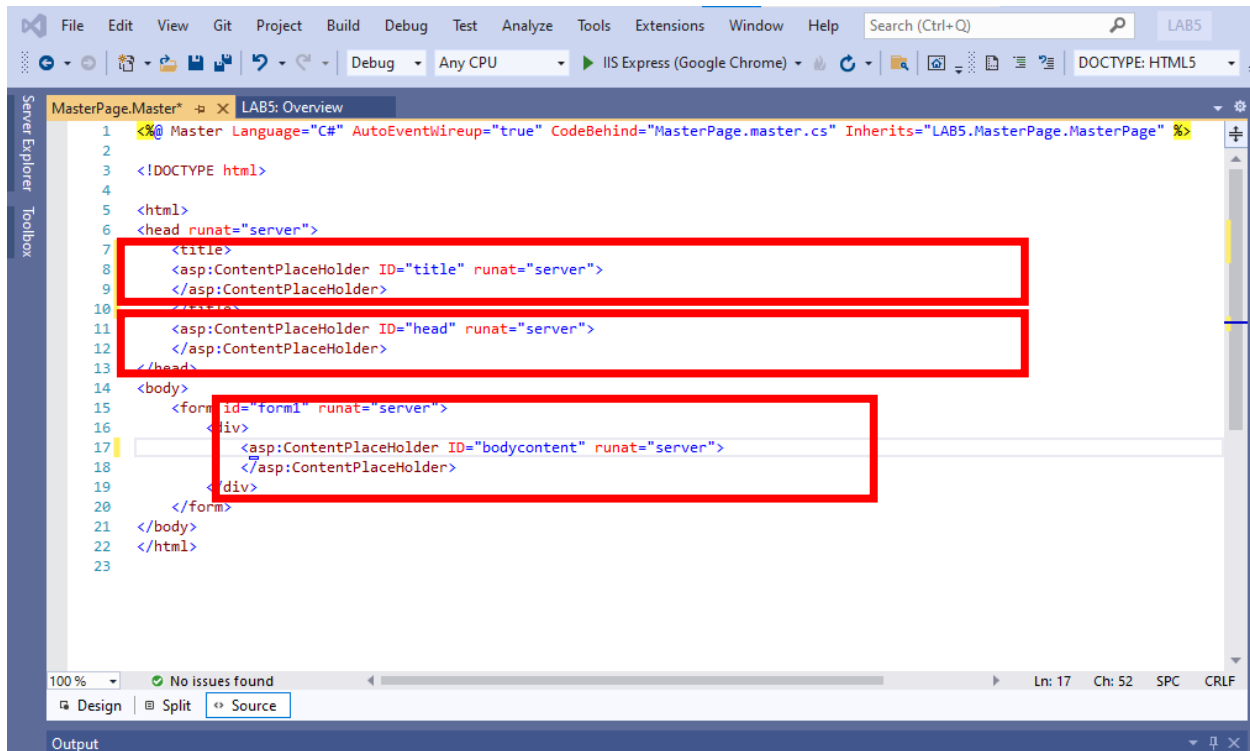
2. Add New folders and name it as *MasterPages* and *Styles* (*MasterPages* for the master page, while *Styles* is for the CSS file)



3. Right click on MasterPages folder and add Master Page



4. Create ContentPlaceHolder (where you want to put all the items/contents that are changeable according to different page). In this example, I use 3: (i) for the title, (ii) for the head, (iii) for body. ALL with different ContentPlaceHolder ID!

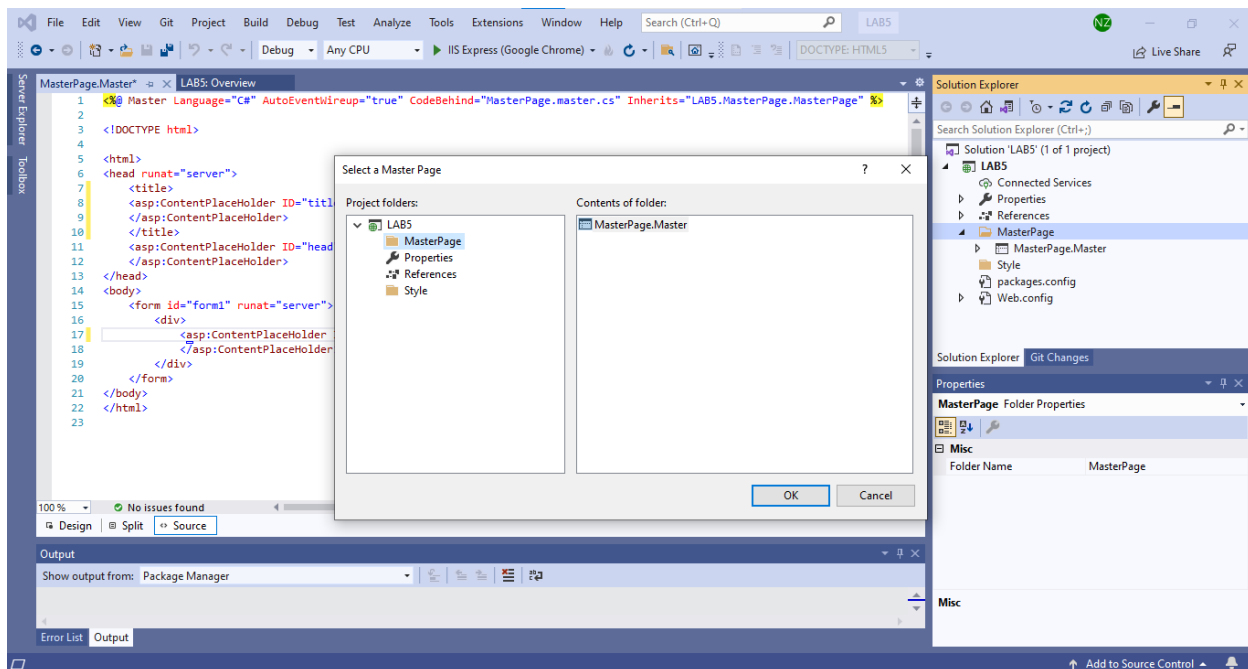
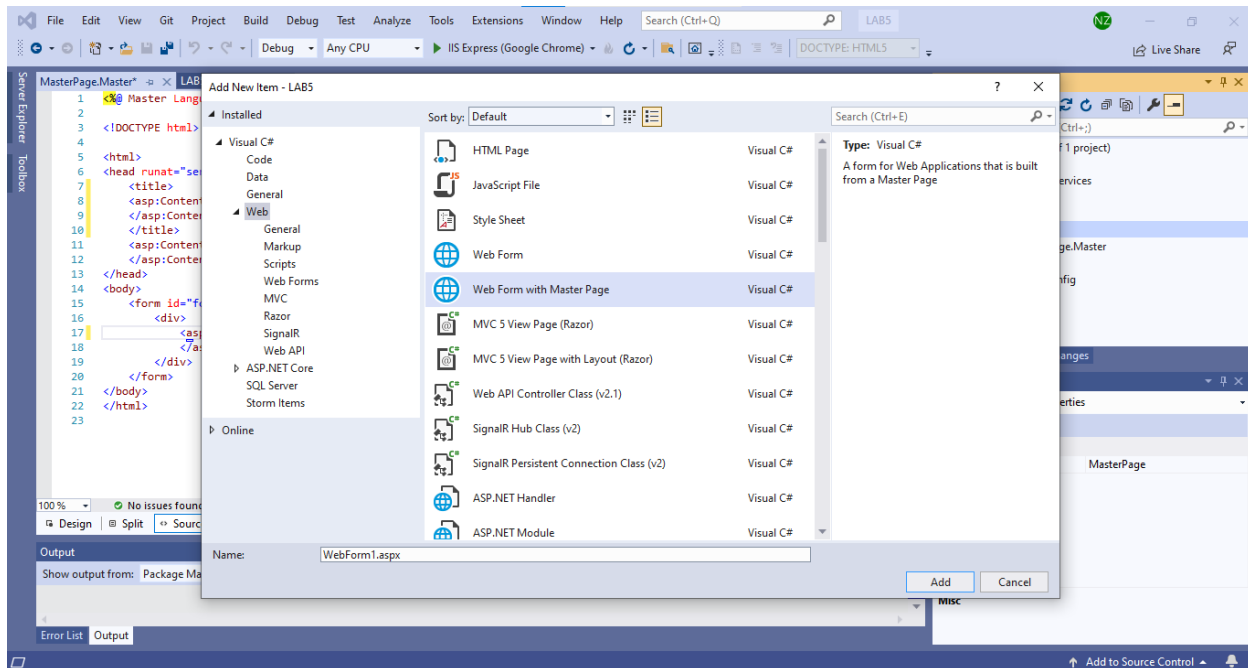


The screenshot shows the Visual Studio IDE with the file `MasterPage.Master` open. The code is in C# and represents an ASP.NET MasterPage. Three `<asp:ContentPlaceHolder>` controls are highlighted with red rectangles:

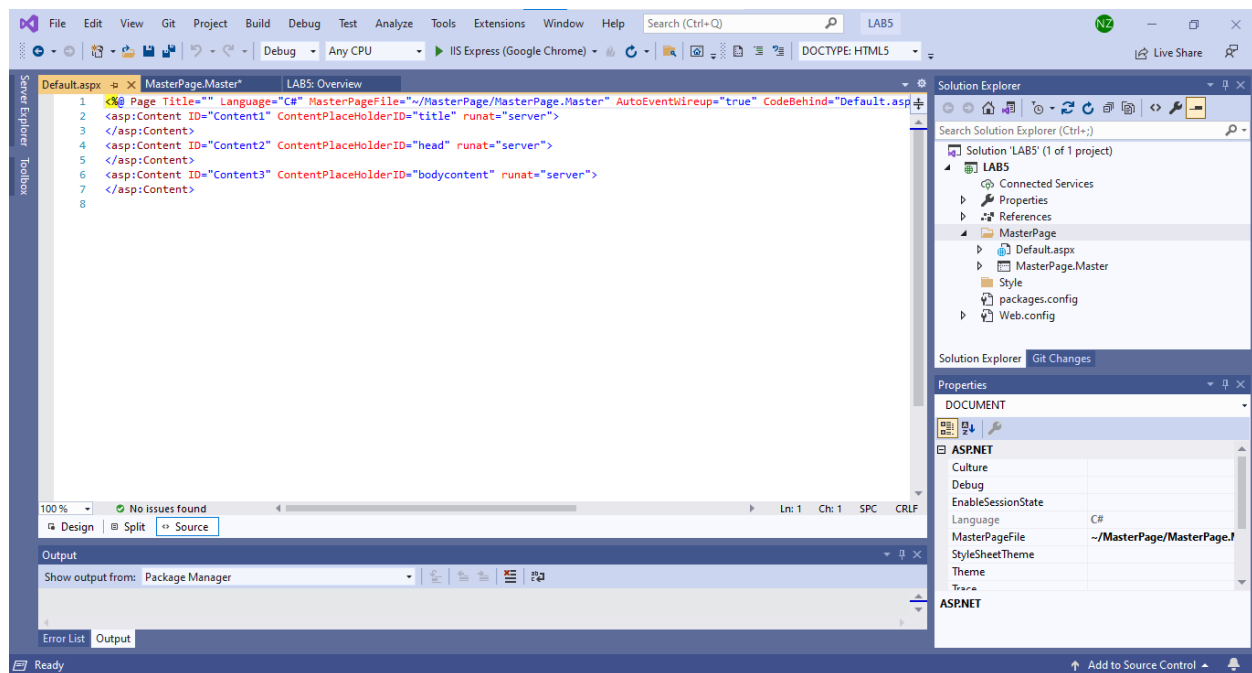
- Line 8: `<asp:ContentPlaceHolder ID="title" runat="server">` (for the title)
- Line 11: `<asp:ContentPlaceHolder ID="head" runat="server">` (for the head)
- Line 17: `<asp:ContentPlaceHolder ID="bodycontent" runat="server">` (for the body)

The code also includes a `<form id="form1" runat="server">` block and a `<div>` block within the body. The status bar at the bottom indicates "No issues found" and shows the current position as Ln: 17, Ch: 52, SPC, CRLF.

- Right click on your folder on the Solution Explorer and create Default.aspx to use the master page created. Make sure to click on *web form with master page*. And then, select our created Master Page in Step 3 above.



6. Notice that, Default.aspx will contain three ContentPlaceholder just like in Step 4.



Pressing the Ctrl+F5 will bring you the output.

7. Say we want to have menu inside the template (master page), therefore, we create menu under *form1* (MasterPage.master)

```

<div class="menu">
  <ul>
    <li><a href="Login.aspx">Login</a></li>
    <li><a href="#">About Us</a></li>
    <li><a href="#">Contact Us</a></li>
    <li><a href="#">Car Booking</a></li>
    <li><a href="#">Feedback Form</a></li>
    <li><a href="Default.aspx">Home</a></li>
  </ul>
</div>

```

Pressing the Ctrl+F5 will bring you the output. Still not looking nice, right?

8. Use CSS to improve the Master Page by getting the preferred layout and nature of the page.

Right click on Styles folder, add Style Sheet. Write your CSS file! Mine is like below:

```
body {
    background-color: rgb(237,237,237);
    font-family: Arial, Helvetica, Sans-Serif;
    font-size: 12px;
}

.wrapper {
    width: 1368px;
    margin: auto;
}

.content {
    width: 100%;
    background-color: rgb(254,254,254);
    border: 1px solid rgb(224,224,224);
    border-radius: 5px 5px 5px 5px;
    float: left;
    margin-top: 8px;
    margin-bottom: 8px;
    min-height: 400px;
}

.menu {
    background-color: rgb(196 38 47);
    width: 100%;
    margin: 0px 0px 10px;
    padding: 0px;
    height: 40px;
    color: rgb(196 38 47);
    border-radius: 5px 5px 5px 5px;
}

.menu ul {
}

    .menu ul li {
        float: right;
        display: block;
        list-style: none;
        border-right: 1px solid rgb(186 17 27);
        border-left: 1px solid rgb(186 17 27);
    }

        .menu ul li a {
            font-size: 13px;
            font-weight: bold;
            line-height: 40px;
            padding: 8px 20px;
            color: rgb(255,255,255);
            text-decoration: none;
        }
```

```

        .menu ul li:hover {
            background-color: rgb(131 19 19);
            border-right: 1px solid rgb(131 19 19);
        }

.clear {
    clear: both;
}

.footer {
    height: 50px;
    background-color: rgb(196 38 47);
    color: rgb(255,255,255);
    border-radius: 5px 5px 5px;
}

.footer h2 {
    padding: 15px;
    text-align: center;
}

```

9. Go to Design View of Master page file, drag and drop style.css file onto this page, so that, when you go back to Source view, you will get the following code inside <head></head>

```
<link href="../../Styles/style.css" rel="stylesheet" type="text/css" />
```

10. Match the css file with our Master page, therefore we need to create *class* for each of the component in css file, e.g.:

We have footer component in CSS, then we create `<div class="footer">...` inside Master page file. The code becomes the following:

```

<form id="form1" runat="server">
<div class="wrapper">

    <div class="menu">
        <ul>
            <li><a href="Login.aspx">Login</a></li>
            <li><a href="#">About Us</a></li>
            <li><a href="#">Contact Us</a></li>
            <li><a href="#">Car Booking</a></li>
            <li><a href="#">Feedback Form</a></li>
            <li><a href="Default.aspx">Home</a></li>
        </ul>
    </div>

</div>
<div class="clear"></div>
<div class="content">
    <div>
        <asp:ContentPlaceHolder id="bodyContent" runat="server">

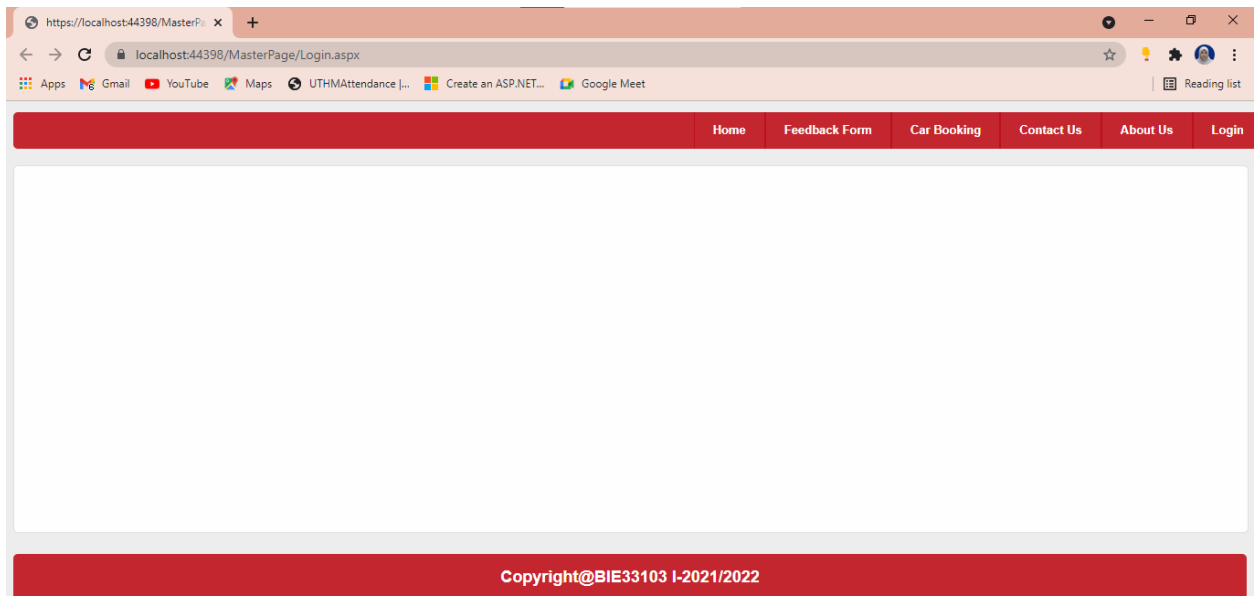
        </asp:ContentPlaceHolder>
    </div>
</div>

```



```
<div class="clear"></div>
<div class="footer">
  <h2>Copyright@BIE33103 I-2021/2022</h2>
</div>
</form>
```

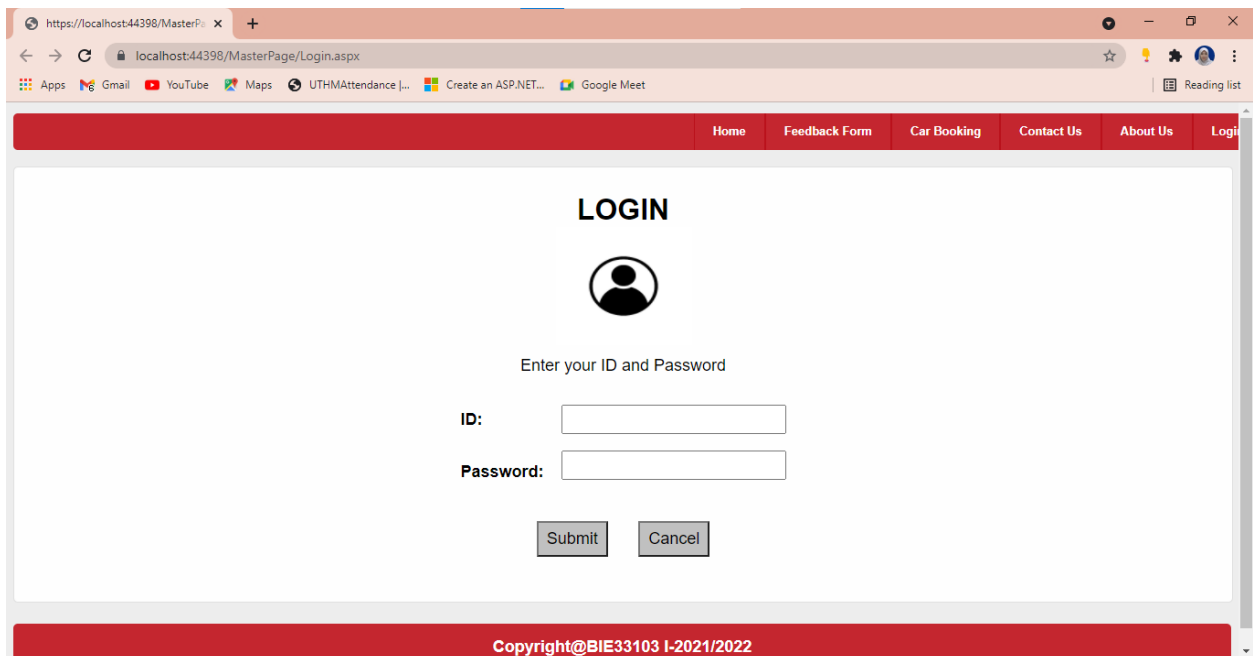
Pressing the Ctrl+F5 will bring you the output.



B. Using Master Page on Content Page

In Section A, we have already use Master Page on Content Page, i.e. on Default.aspx (the Content Page).

We can use the template (Master page) on other page as well, e.g. by creating Login.aspx and you get the following page. (Make sure to follow Step 5 in Section A).



C. Using validator(s)

1. In Section B, you may continue the process by creating the C# methods upon clicking Submit and Cancel button.

For Submit button, mine is like the following:

```
protected void ButtonSubmit_Click(object sender, EventArgs e)
{
    string id = txtbox_ID.Text;
    string pword = txtbox_password.Text;

    if (id.Equals("admin") && pword.Equals("admin"))
    {
        //use this simple command if want re-direct to another page.
        Response.Redirect("default.aspx");
    }
    else
    {
        //use this simple command if want to display the status
        lblStatus.Text = "Login unsuccessful!";
    }
}
```

2. ASP.NET offer at least five validation controls for our use.

RequiredFieldValidator	Checks that the user has entered or selected anything.
RegularExpressionValidator	Checks user input against a regular expression. This allows a wide variety of checks to be made and can be used for things like ZIP codes and phone numbers.
CompareValidator	Compares an input control to a fixed value or another input control. It can be used for password verification fields, for example. It is also possible to do typed date and number comparisons.
RangeValidator	Much like CompareValidator, but can check that the input is between two fixed values.
CustomValidator	This allows you to write your own code to take part in the validation framework.

3. In this example, we may add RequiredFieldValidator checking on ID and password input to ensure that both data are inserted (inside Login.aspx). Following is sample of the code:

```
<td>
<asp:TextBox ID="txtPassword" runat="server" Width="238px" Height="26px"
TextMode="Password"></asp:TextBox>
<br />
<asp:RequiredFieldValidator ID="rvfPassword" runat="server"
ControlToValidate="txtPassword" ErrorMessage="Please enter your password!"
ForeColor="#CC0000"></asp:RequiredFieldValidator>
<br />
</td>
```

To avoid the environment from requesting JQuery upon using the validator, a little bit of setting needs to be done inside the C# file as follows:

```
protected void Page_Load(object sender, EventArgs e)
{
    ValidationSettings.UnobtrusiveValidationMode =
UnobtrusiveValidationMode.None;
}
```

Using the validator, it will check whether the input is already inserted. Otherwise, error message will be shown as in the sample below:

https://localhost:44398/MasterPage/Login.aspx

Home Feedback Form Car Booking Contact Us About Us Login

LOGIN

Enter your ID and Password

ID:

Password:

Please enter your password!

Submit Cancel

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Exercise:

1. Write the code for Cancel button, when user click on Cancel, text inside and ID and Password TextBox will be erased.
2. Use at least **ONE(1)** more validator wherever appropriate.
3. Create **Contact Us** page and its C# coding.

Instruction for submission:

- Your lab report must be in pdf.
- Copy your code program in asp.net, C# code in codebehind and screenshot the output displayed in the browser.
- Submission at **AUTHOR** (Tab Individual Activities).
- All work is to be done on an individual basis.
- Duration: 1 week only.