

[eFolio tasks for feedback (Week 5 and Week 6) Assignment]

Studio {#6}

Name and Student Id: {Bolin Zheng 33480842}

Self-Evaluation {High Distinction}:

Need Help	Work in Progress	Pass	Credit	Distinction	High Distinction
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Task {5.1}:

{Answers:

Async allows your script to run as soon as it's loaded, without blocking other elements on the page. Defer means your script will only execute after the page has finished loading.

Async is a way to load the scripts asynchronously. If a page with several external scripts, load them asynchronously could speed up the loading time since the browser could load them and execute them in parallel.

It is better to use async while loading the large JavaScript file. And reduces the perceived load time of the page because the browser could start to render elements sooner.

However, it may violate the render-blocking CSS rule. This rule is critical for ensuring that the page loads successfully and does not seem blank while the JavaScript file is loading. On the other hand, Async may delay the parsing of other resources such as images on the page.

**Application and scenario for Async:**

- If the page does not need to depend by other resources, using the sync could speed up the parsing time.
- If the script is independent with other script, Async could also speed up the parsing time and enhancing the script concurrency.

Defer would make the browser run the scripts only after parsing the web page. Deferred scripts can be modified independently of the rest of the page, which means you don't have to re-parse and re-render the entire page if you alter a deferred script.

Defer would not affect rendering the initial page. And they could not affect the parsing of other elements or resources on the page.

In the opposite, to some extent, it would delay the parsing the page. Lots of script with defer attributes also may slow down the page. And some older browser may do not support the defer.

**Application and scenario for defer:**

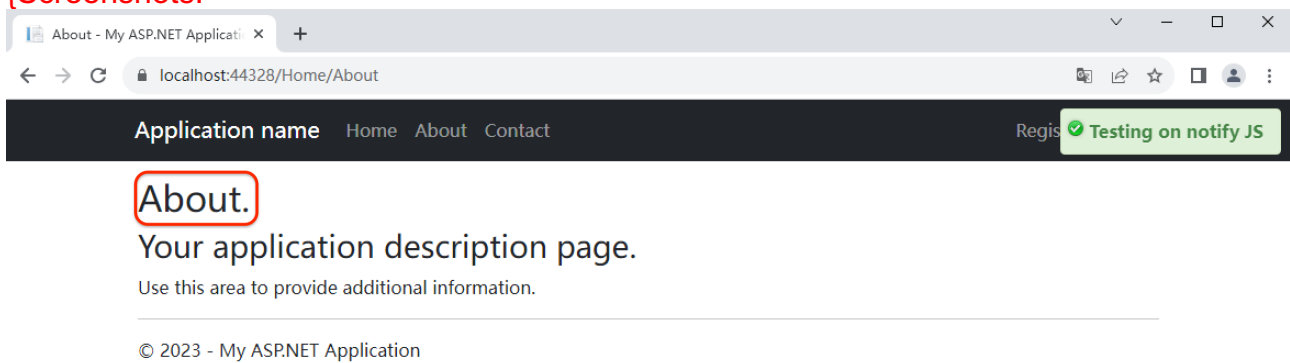
- While lots of JavaScript need to be loaded by the specific order, then we could use Defer attributes.
- If the JavaScript need to use the content of the page, then defer could make sure the script could get the complete page content.

,  
In the picture below: Which shows.

- Screenshot of a website using Notify.js as lab required.
- the “testing on notify JS” message in index only.
- internal JavaScript template to External.
- The code using Notify JS in Shared layout page as lab required.
- The code using Notify JS in index page only.
- The JS file shows external function.

}

{Screenshots:



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# ASP.NET

ASP.NET is a free web framework for building great Web sites and web applications using HTML, CSS and JavaScript.

[Learn more »](#)

## Getting started

ASP.NET MVC gives you a powerful, patterns-based way to build dynamic websites that enables a clean separation of concerns and gives you full control over markup for enjoyable, agile development.

[Learn more »](#)

## Get more libraries

NuGet is a free Visual Studio extension that makes it easy to add, remove, and update libraries and tools in Visual Studio projects.

[Learn more »](#)

## Web Hosting

You can easily find a web hosting company that offers the right mix of features and price for your applications.

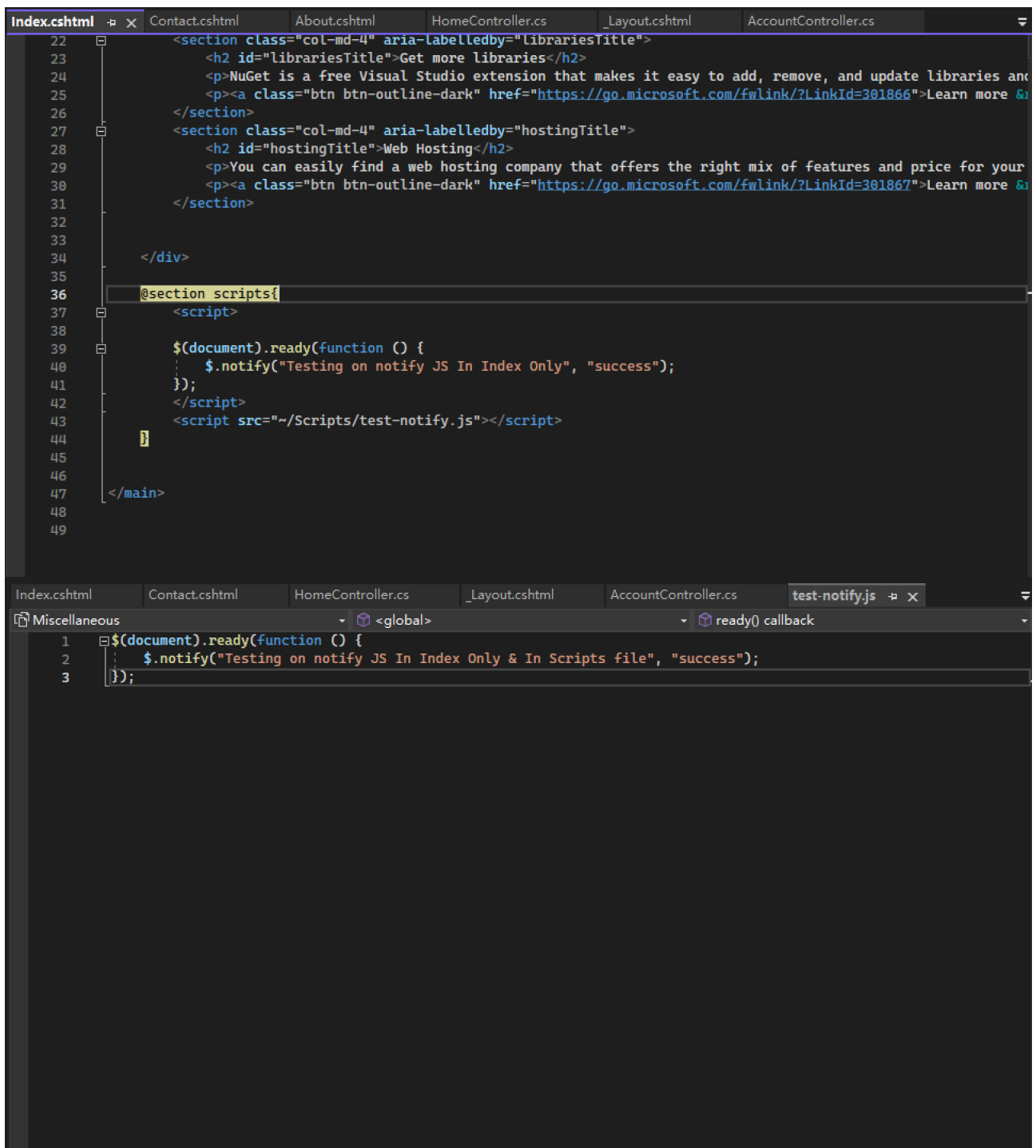
[Learn more »](#)

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```

Index.cshtml | Contact.cshtml | About.cshtml | HomeController.cs | AccountController.cs | _Layout.cshtml*
27      </div>
28    </nav>
29    <div class="container body-content">
30      @RenderBody()
31      <hr />
32      <footer>
33        <p>&copy; @DateTime.Now.Year - My ASP.NET Application</p>
34      </footer>
35    </div>
36
37    @Scripts.Render("~/bundles/jquery")
38    @Scripts.Render("~/bundles/bootstrap")
39    @RenderSection("scripts", required: false)
40    <script src="~/Scripts/notify.min.js" defer></script>
41    <script>
42
43      $(document).ready(function () {
44        $.notify("Testing on notify JS", "success");
45      });
46    </script>
47  </body>
48 </html>
49

```



The screenshot shows the Visual Studio Code editor with the following content:

```

Index.cshtml
22 <section class="col-md-4" aria-labelledby="librariesTitle">
23   <h2 id="librariesTitle">Get more libraries</h2>
24   <p>NuGet is a free Visual Studio extension that makes it easy to add, remove, and update libraries and
25   <p><a class="btn btn-outline-dark" href="https://go.microsoft.com/fwlink/?LinkId=301866">Learn more &
26 </section>
27 <section class="col-md-4" aria-labelledby="hostingTitle">
28   <h2 id="hostingTitle">Web Hosting</h2>
29   <p>You can easily find a web hosting company that offers the right mix of features and price for your
30   <p><a class="btn btn-outline-dark" href="https://go.microsoft.com/fwlink/?LinkId=301867">Learn more &
31 </section>
32
33
34 </div>
35
36 @section scripts{
37   <script>
38
39   $(document).ready(function () {
40     $.notify("Testing on notify JS In Index Only", "success");
41   });
42   </script>
43   <script src="~/Scripts/test-notify.js"></script>
44 }
45
46 </main>
47
48
49

```

Below the main editor, a file named `test-notify.js` is open, showing the following content:

```

1 $(document).ready(function () {
2   $.notify("Testing on notify JS In Index Only & In Scripts file", "success");
3 });

```

}

{Link to code repository: [https://github.com/aaronzheng0111/-FIT\\_W6\\_Task\\_5.git](https://github.com/aaronzheng0111/-FIT_W6_Task_5.git) }

{References: [https://codedamn.com/news/javascript/async-and-defer-in-script-tag#advantages\\_of\\_using\\_the\\_defer\\_attribute](https://codedamn.com/news/javascript/async-and-defer-in-script-tag#advantages_of_using_the_defer_attribute)}

{URLs}

Task {5.2}:

**{Answers:** A screenshot demonstrating uses of Bootstrap datepicker (with 20<sup>th</sup> August set as a default date)

, And also the code shows using the cdn link to refer the JS and CSS file.

}

**{Screenshots:**

## Contact.

### Your contact page.

One Microsoft Way  
Redmond, WA 98052-6399  
P.: 425.555.0100

**Support:** [Support@example.com](mailto:Support@example.com)

**Marketing:** [Marketing@example.com](mailto:Marketing@example.com)

## Bootstrap Datepicker



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```

17 <strong>marketing:</strong> <a href="mailto:Marketing@example.com">Marketing@example.com</a>
18 </address>
19
20 <center>
21 <h1>Bootstrap Datepicker</h1>
22 <input type="text" id="datepicker">
23
24 </center>
25
26 </main>
27
28
29
30 @section scripts{
31 <script src="https://cdnjs.cloudflare.com/ajax/libs/bootstrap-datepicker/1.10.0/js/bootstrap-datepicker.min.js">
32 <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/bootstrap-datepicker/1.10.0/css/bootstrap-datepicker.min.css">
33
34 <script>
35 $(document).ready(function () {
36 $('#datepicker').datepicker('setDate', '08/20/2023');
37 });
38 </script>
39
40

```

}

**{Link to code repository:** [https://github.com/aaronzheng0111/-FIT\\_W6\\_Task\\_5.git](https://github.com/aaronzheng0111/-FIT_W6_Task_5.git)

**{References:** <https://bootstrap-datepicker.readthedocs.io/en/latest/> }

**{URLs}**

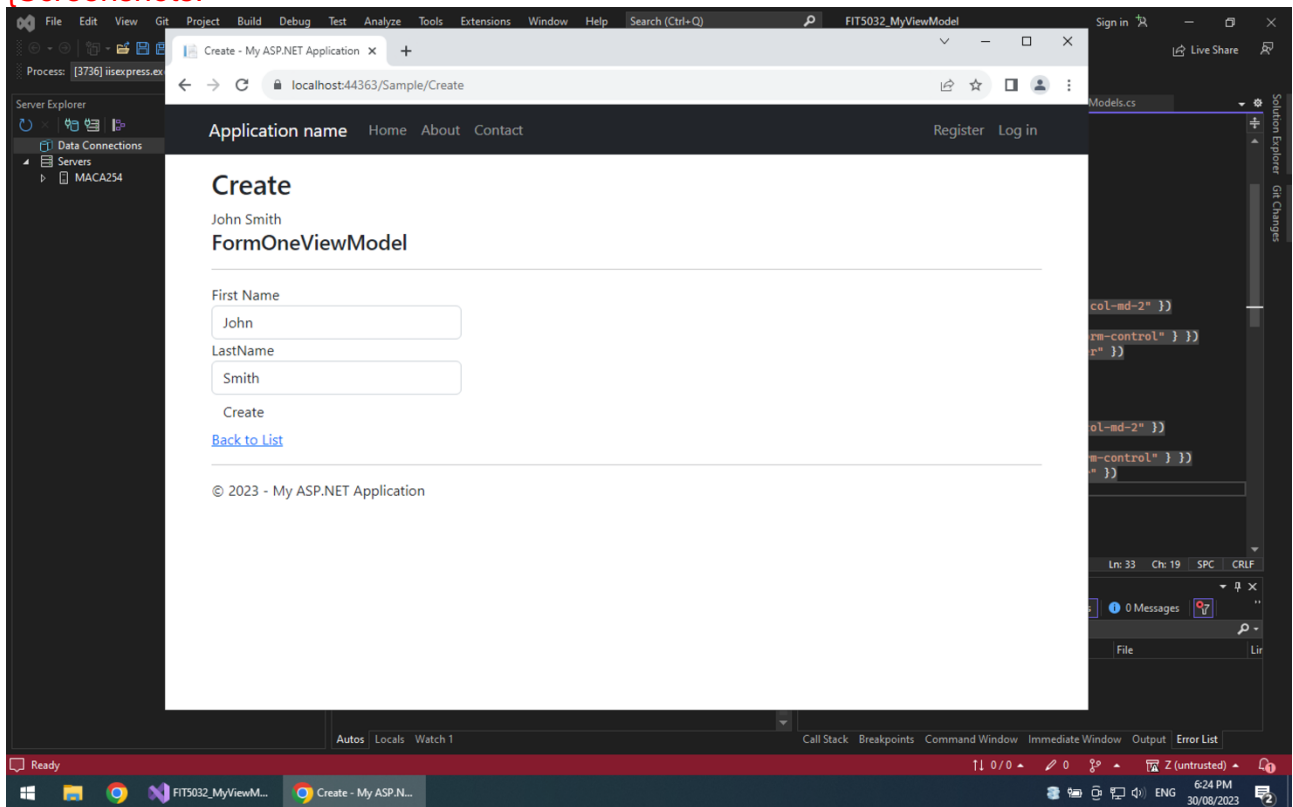
Self-Evaluation { **High Distinction** }:

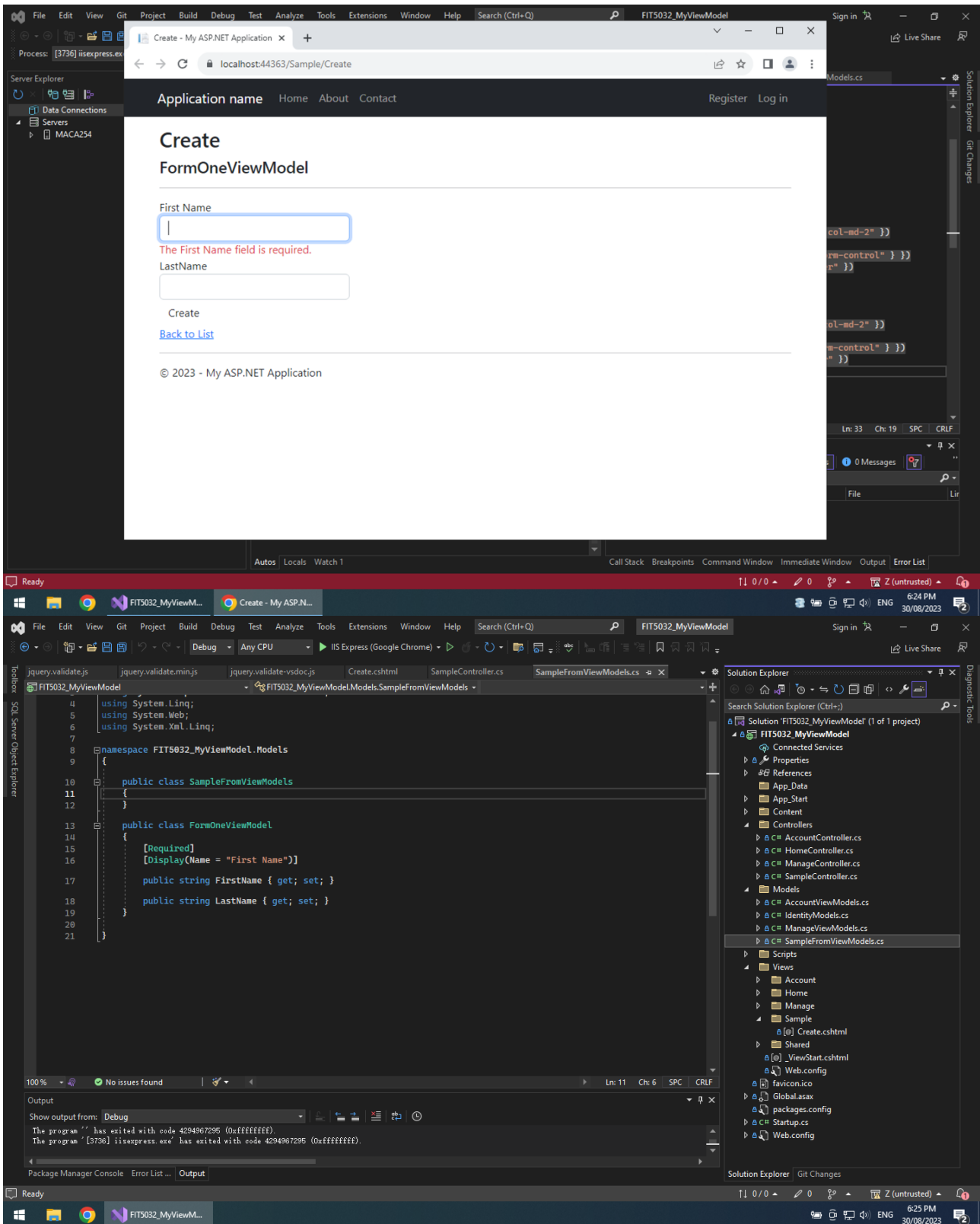
Need Help	Work in Progress	Pass	Credit	Distinction	High Distinction
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Task {6.1}:

{**Answers:** Below are Screenshots showing your week 6 application running with validation on “Create” page and Screenshot of your code for FormOneViewModel class.}

{**Screenshots:**





The screenshot displays a Visual Studio environment with a web application running on localhost:44363. The browser window shows a 'Create' form for 'FormOneViewModel'. The form has a 'First Name' field, which is highlighted in red with a validation error message: 'The First Name field is required.' Below the 'First Name' field is a 'LastName' field. The form also includes a 'Create' button and a 'Back to List' link. The footer of the page indicates '© 2023 - My ASP.NET Application'.

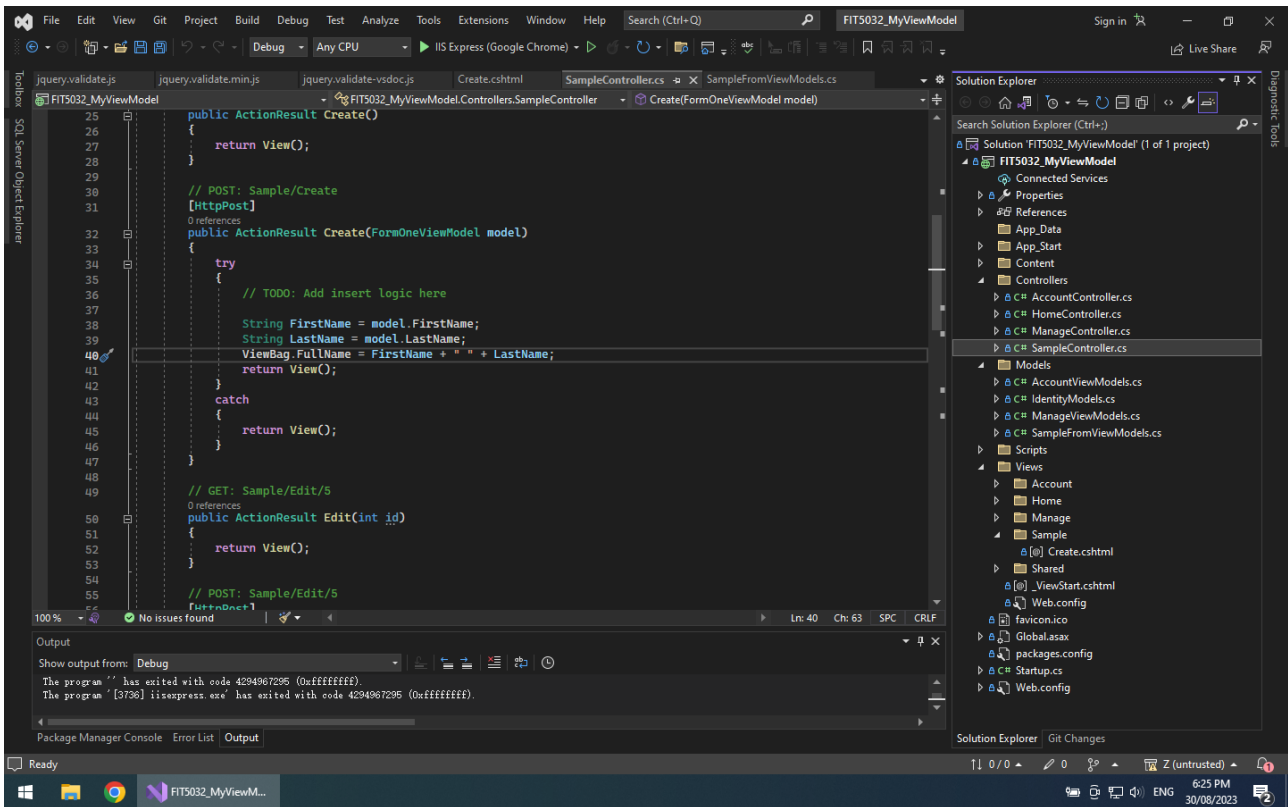
The Visual Studio interface shows the code for 'SampleFromViewModels.cs' in the 'Models' namespace. The code defines a 'FormOneViewModel' class with a 'Required' attribute and a 'Display(Name = "First Name")' attribute on the 'FirstName' property. The 'SampleFromViewModels' class is also defined.

```
using System.Linq;
using System.Web;
using System.Xml.Linq;

namespace FIT5032_MyViewModel.Models
{
    public class SampleFromViewModels
    {
    }

    public class FormOneViewModel
    {
        [Required]
        [Display(Name = "First Name")]
        public string FirstName { get; set; }
        public string LastName { get; set; }
    }
}
```

The Solution Explorer on the right shows the project structure, including 'Controllers', 'Models', 'Scripts', 'Views', and 'WebResource'. The 'Models' folder contains 'AccountViewModels.cs', 'IdentityModels.cs', 'ManageViewModels.cs', and 'SampleFromViewModels.cs'.



}

{Link to code repository: [https://github.com/aaronzheng0111/-FIT\\_W6\\_Task\\_6.git](https://github.com/aaronzheng0111/-FIT_W6_Task_6.git)}

{References}

{URLs}

Task {6.2}:

**{Answers:** A set of ASP.Net MVC HTML helper extensions. ASP.Net MVC HTML helper extensions. Implementing client-side validation by utilizing jQuery Validation data attributes in conjunction with HTML data attributes.

It validates user input on the client side, improving the user experience and reducing the number of round trips to the server for validation.

ViewModels represent the data entered by the user. We could specify validation rules using attributes provided by the .net framework (e.g. [Required] in the Task 6.1 example).

}

{Screenshots: }

{Link to code repository: [https://github.com/aaronzheng0111/-FIT\\_W6\\_Task\\_6.git](https://github.com/aaronzheng0111/-FIT_W6_Task_6.git)}



{References: <https://www.geeksforgeeks.org/what-is-unobtrusive-validation-in-jquery/#discuss>,  
}

{URLs}