COM741 Web Applications Development

Practical 4 (Introduction to MVC) - Solutions

- 1. Create the default template mvc project as outlined.
- 2. The updated view file SMS.Web\Views\Home\index.cshtml should look as follows

```
<div class="text-center">
  <h1>Home Page</h1>
  This is the default page displayed when the application loads
</div>
```

3. The updated view file SMS.Web\Views\Home\index.cshtml should now look as follows

```
<div class="text-center">
    <h1>Home Page</h1>
    This is the default page displayed when the application loads
Today is <b>@DateTime.Now.ToLongDateString()</b>
</div>
```

4. The SMS.Web\Controllers\HomeController.cs file should contain an Index() action method as follows

```
public IActionResult Index()
{
    ViewBag.LongTime = DateTime.Now.ToLongTimeString();
    ViewBag.Message = "Time Now";
    return View();
}
```

Then the view file file SMS.Web\Views\Home\index.cshtml should now look as follows

5. Ensure you added the AboutViewModel.cs file contained in the question to the Models folder.

```
using System;

namespace SMS.Web.Models
{
   public class AboutViewModel
   {
      public string Title { get; set; }
      public string Message { get; set; }
      public DateTime Formed { get; set; } = DateTime.Now;
      public string FormedString => Formed.ToLongDateString();
      public int Days => (DateTime.Now - Formed).Days;
   }
}
```

Next, the SMS.Web\Controllers\HomeController file should have following action added, where we create an instance of our viewmodel and set its properties. We then return the View and pass the viewmodel as a parameter.

```
public IActionResult About()
{
    var about = new AboutViewModel {
        Title = "About",
        Message = "Our mission is to develop great solutions for educe
        Formed = new DateTime(2000,10,1)
    };
    return View(about);
}
```

Next, we create a view file SMS.Web\Views\Home\About.cshtml as follows

```
@model AboutViewModel

<h2>@Model.Title</h2>

@Model.Message
We were formed on @Model.FormedString
And are now operating for @Model.Days days
```

Edit the SMS.Web\Views\Shared_Layout.cshtml file and add a new Bootstrap nav link so that a menu option is created to navigate to the about page. See partial nav below with additional 1i at end containing About anchor link

6. Using a bootstrap card style to display about view

To style the Index.cshtml file to use our new custom css class it should look as follows

The SMS.Web\wwwroot\css\site.css file should have following custom css styles added to end of the file. Note the additional callout-info callout-warning etc are optional.

```
/* ----- Custom Styles ----- */
.callout {
 padding: 1.25rem;
 margin-top: 1.25rem;
 margin-bottom: 1.25rem;
 border: 1px solid lightgray;
 border-left-color: silver;
 border-left-width: .75rem;
 border-radius: .25rem;
}
.callout-primary {
 border-left-color: cornflowerblue;
.callout-info {
 border-left-color: deepskyblue;
}
.callout-warning {
 border-left-color: orange;
}
.callout-danger {
 border-left-color: red;
}
.callout-secondary {
 border-left-color: silver;
}
```