Module 3 Day 4

MVC Views 2

A little more on Layout Pages

- _ViewStart.cshtml
  - Code in this file runs before any view code runs
  - This is why every view does not need to set its Layout

- You can Render more content than just a single Body
  - @RenderSection is used in the Layout file
  - @section is used in the View file to define blocks of code to be rendered

```
    </main>
@RenderSection("sidebar", false)
</body>
```

```
@section sidebar {
    <aside>
        Here is a side-bar.
    </aside>
}
```

MVC Request Workflow

- Browser sends HTTP Request to server

- Framework *routes* request to a Controller Action

- Controller creates Model objects to do some work (fetch or update)

- Controller invokes the View
  - Passes Model data (possibly other properties) to the view

- View merges HTML + Model data to create response body

- Controller returns HTTP Response to the Browser

- Browser displays response body (in the case of HTML)

Passing Model Data - Controller

- Controller gets Model data, View needs it

- Controller passes Model using a View method overload

- Overloads of the View method:

  View() : uses the default view (action name), no model data
  View("myView") : uses view "myView", no model data
  View(myModel) : uses default view, passes model myModel
  View("myView", myModel) : uses view "myView", model myModel

Passing Model Data - View

- Add the @model directive to the top of the View file
  @model SavingsAccount
  - Specifies the Type of the Model
  - Other Razor directives. Note all Razor directives are lower-case
    - @using
    - @namespace
    - @section
- Refer to the passed-in model object with the Model property
  - This is a property available in the Razor code
  - As a property it is declared as upper-case