



In ASP.NET Core, the layout view is a webpage responsible for containing the presentation logic that is common to all views.

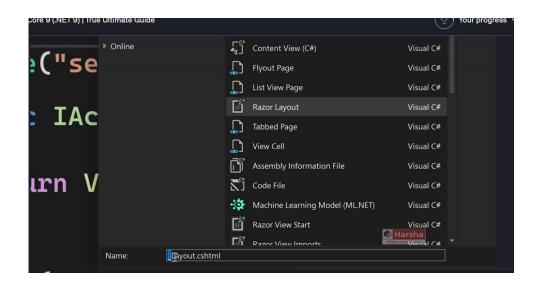
For example, if your project has 10 views and you want to maintain a consistent look and feel, along with a common header, sidebar, and footer, you would place that shared design in the layout view.

In the header, you can include the application title and navigation bar.

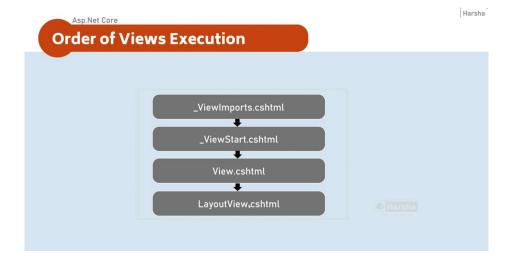
In the sidebar, you can add navigation links.

In the footer, you can display client information or copyright details to show at the bottom of the page.

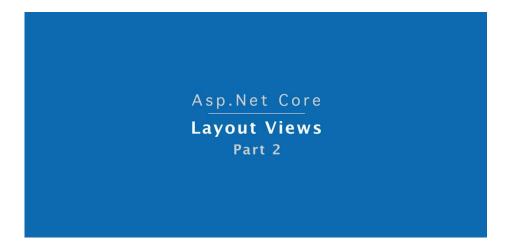
The common content placed in the layout view is automatically repeated for every view in the application.

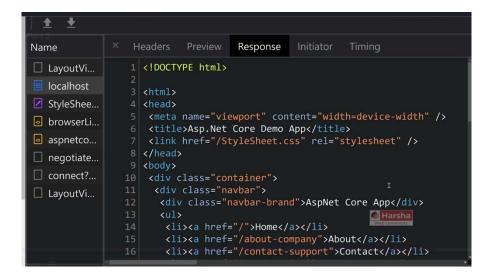


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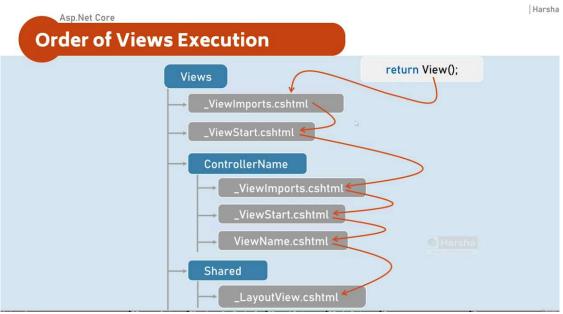


At execution time, the **view executes first**, and the content of the view is substituted in place of the @RenderBody directive in the layout view.



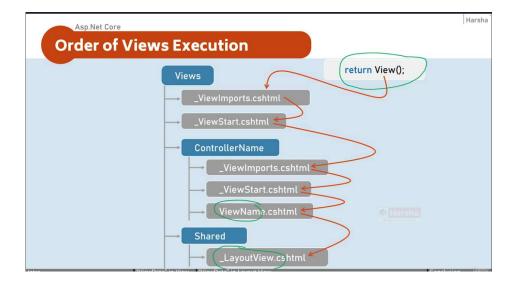


### Asp.Net Core Layout Views with Multiple Views





## Asp.Net Core ViewData in Layout Views



This is the **order of execution** whenever you say return View in the controller:

- 1. It first executes the ViewImports and ViewStart files in the **global Views folder**.
- 2. Then, it moves to the **controller-specific folder** within the Views folder and executes the ViewImports and ViewStart files there.
- 3. Next, the **actual view** executes.
- 4. Finally, the **layout view** executes.

In this sequence, whether in the **controller**, **view**, or **layout view**, you can access the same ViewData object. This means you can transfer information via ViewData in the same execution order.

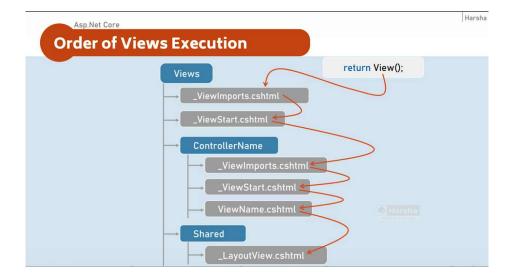
### For example:

- If you assign a value to ViewData in the **controller**, you can access that data in the subsequent files, such as the view or the layout view.
- Similarly, if you assign a value to ViewData in the view, you can access it in the layout view.

Use case example: Based on this, views often supply the page title from the view to the layout view. Let me demonstrate this.

This viewData can be accessed in the layout view

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Asp.Net Core
_ViewStart
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Just like the `\_ViewImports.cshtml` file, the `\_ViewStart.cshtml` is a special file that gets executed \*\*before the execution of a view\*\*. It is used to specify the \*\*common layout view\*\* for multiple views in the same folder.

### For example:

If you have a `\_ViewStart.cshtml` file and you write the following statement:

`Layout = "SampleLayout";`

Then the same layout is applied to \*\*all the views\*\* within the same controller's folder.

### ### Benefits:

The developer does not need to repeat the `Layout` statement (e.g., `Layout = "SomeFileName"`) in every individual view. Instead, the `ViewStart.cshtml` acts as a \*\*common setting\*\*.

Additionally, you can create a \*\*global `\_ViewStart.cshtml`\*\* file at the \*\*root Views folder\*\*, which applies globally to all views in the project.

### ### Execution Order:

- 1. The \*\*global ` ViewStart.cshtml`\*\* (in the root Views folder) executes first.
- 2. The \*\*local `\_ViewStart.cshtml`\*\* (in the controller's Views folder) executes next and \*\*overrides\*\* the global layout setting if necessary.

This allows developers to override the layout file specified in the global `\_ViewStart.cshtml` by providing a different layout in the local `\_ViewStart.cshtml` file.

# Asp.Net Core **Dynamic Layout Views**

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Dynamic layout view means you are going to set the layout property of the view dynamically based on the condition. For example, you will write a condition saying that if the user has supplied the value for this parameter, then you will set one layout view; if it is not, another layout view. So, you are going to set the layout view of a view dynamically.

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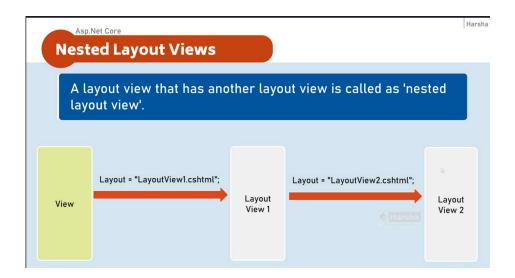
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## Asp.Net Core Layout Views Sections







The meaning of a nested layout view is that you apply one layout view to another layout view. For example, there is a view that has Layout View 1, but you have applied another layout view called Layout View 2 to this Layout View 1. In other words, the master page itself has another master page. This is called a nested layout view. It is quite rare to use in real-world projects, but this lecture is meant just to show that it is possible.