

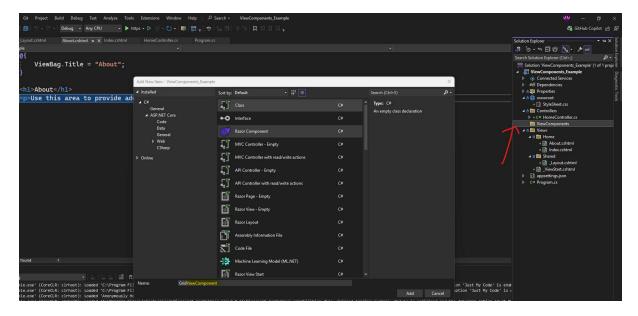
The partial view is primarily used for rendering the UI. It allows you to place reusable HTML code, i.e., presentation logic, in a partial view, which can be invoked anytime.

However, when you need to combine additional programming logic with UI logic, a **view component** is the preferred choice. For example, you can create a **view component class** to include programming logic, such as performing calculations, retrieving data from a database, or preparing model data to supply to the view. The partial view, which is part of the view component, will then handle the UI rendering.

In general, when you want to integrate programming logic with UI logic as a single unit, a **view component** is the ideal choice. Just like a partial view, a view component can be invoked in any other view as needed by using the following statement:

@Component.InvokeAsync("ComponentName")

Let me demonstrate this practically.



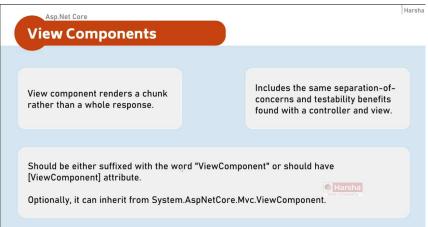
Suffix the word, 'ViewComponent'

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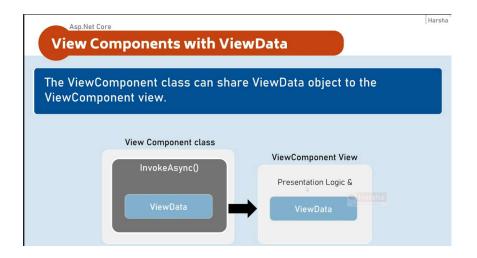
From Index View, lets assume that at line no 6, we are calling ViewComponent. Then, it automatically creates an object of 'GridViewComponent' and it calls 'InvokeAsync()' method.

Asp.Net Core View Components Part 2





Asp.Net Core
View Components with ViewData



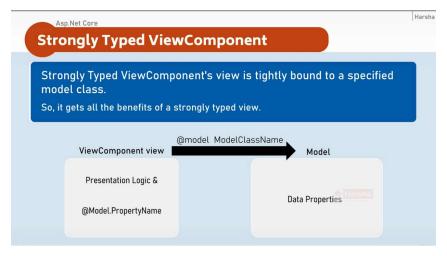
It is possible to supply the **ViewData** object from the **view component class** to the **view component partial view**. However, it is **not possible** to supply the **ViewData** object from the **view to the view component class**.

In this lecture, we will focus on sharing the ViewData object from the view component class to the view component partial view, similar to how you share the ViewData from the controller to the view.

For example, if you want to send a model object from the **view component class** to the **partial view**, you can achieve this by passing the model directly as part of the view component logic.

Let me show how this can be done practically.



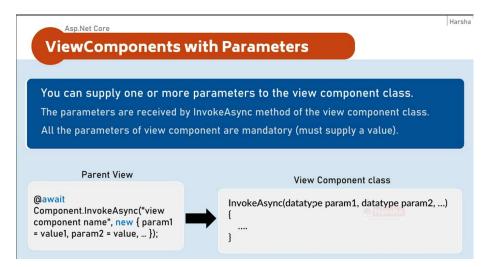


Just like you can make a view or partial view a strongly typed view bound to a specific model class, you can also make a view component a strongly typed view component.

This means the **partial view** of the **view component** will be strongly typed to a specific model class. The **view component class** can then supply a model object to the corresponding **partial view**.

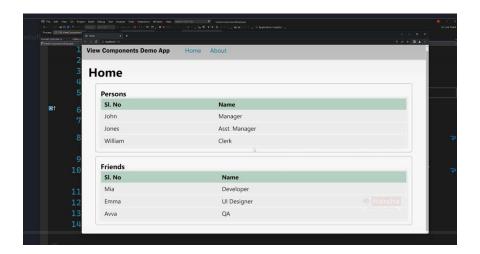
The **partial view** of the **view component** receives the model object and renders it in the UI. This approach provides all the advantages of a strongly typed view and ensures seamless interaction between the view component class and its partial view.

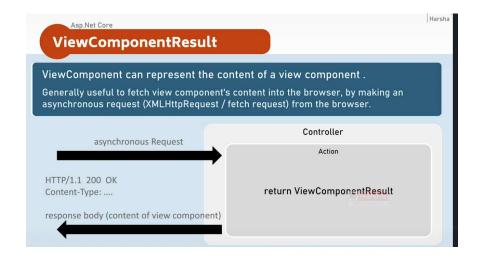




```
| Harsh | Invoking ViewComponent with parameters |
| @await Component.InvokeAsync("view component name", new { param = value });
| -- or -- |
| <vc:view-component-name | param="value" /> | Harsh |
| Harsh | Parameters |
| Component | Name | Par
```

Asp.Net Core ViewComponentResult





In the current application, the **view component** is invoked automatically at runtime as soon as the view loads. However, there might be scenarios where you want to invoke the **view component programmatically** through JavaScript by making an asynchronous request.

For instance, you may want the view to load **without the view component initially**, and invoke the **view component** only **on demand**—for example, when a user clicks a button.

This is achievable by returning a **ViewComponentResult** from a **controller action method**. This way, the view component is loaded dynamically based on user interaction, providing more control over when it is rendered.

For instance, there is a banking application, user clicks on 'Download Bank Statement' button.