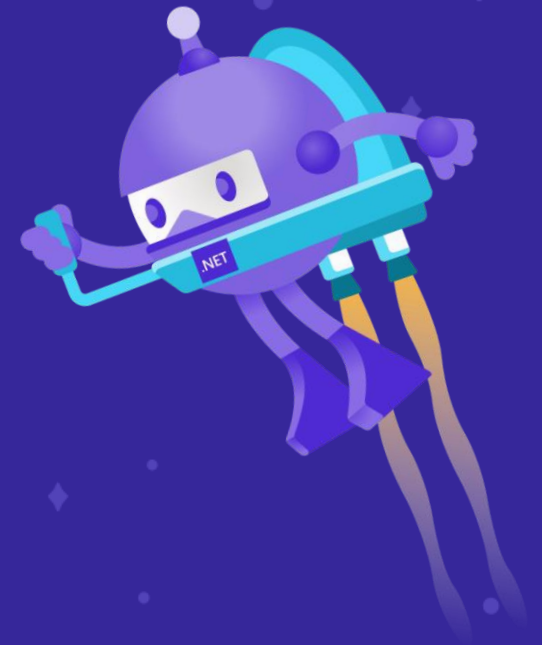


Components in Blazor

Poornima Nayar



Hello!

- Freelance Developer
- Langley, Berkshire, UK
- Umbraco MVP
- Carnatic Music, Reading
- @poornimanayar

Components in Blazor

- Building blocks of Blazor apps
- Razor files with a `.razor` extension. Formally called Razor Components
- Can be a page, a form or a dialog
- Can be nested, reused or even shared among projects

Components in Blazor

- Component names must always start with an uppercase character `Mycomponent.razor`
- Include a component in a page or another component by using the name of the component as a HTML tag. For e.g. a component called `Mycomponent.razor` can be called as `<Mycomponent></Mycomponent>`
- Components compile to partial classes

Routing

C# Code in Components

Parameters

Lifecycle of a Component

SetParametersAsync

Sets the parameters for the component

OnInitialized/
OnInitializedAsync

Upon component init after having received parameters

OnParametersSet/
OnParametersSetAsync

After component init and then everytime after a parameter value changes

OnAfterRender/
OnAfterRenderAsync

After the component has rendered completely

Data Binding

One-Way Binding

Unidirectional flow of updates eg: a label value updated from a property value `@PropertyName`

Two-way Binding

Bi-directional flow of updates, eg: form `@bind=PropertyName` on HTML element `@bind-<attribute-name>=PropertyName` `@bind-<attribute-name>:event=on<event-name>`

Event Handling

- Events can be specified on HTML elements as attributes of format `@on{EVENT}`. Value of the attribute treated as the event handler. Eg `@onclick = "HandleOnClick"`
- Event handlers can be asynchronous and return a Task
- An optional `EventArgs` can be passed into the event handler .
For e.g. `MouseEventArgs`

Accessing the JavaScript Runtime

Communication between Components

Resources

- Component section and all sub pages on Microsoft Docs - <https://docs.microsoft.com/en-us/aspnet/core/blazor/components/?view=aspnetcore-3.1>
- Github Repo with samples - <https://github.com/poornimanayar/Blazor.DF20>

Thank you...

