

## Blazor Component Lifecycle Diagram



	Override SetParametersAsync if you want to execute some code before the parameters are set. Always call base. SetParametersAsync() to execute the original logic!  Onlni execute comp The new parameters are set.	OnInitialized  initializedAsync and OnInitialized cute code to initialize the ponent.  method is called just once ure the firstRender of the ponent.	OnParametersSet  OnParametersSet[Async] is called after component initialization or when a component has received parameters from its parent and the values are assigned to properties.		Event Callback  Components provide event handling features. For an HTML element attribute named on{event} (for example, onclick and onsubmit) with a delegate-typed value, components treats the attribute's value as an event handler.	Render  Override BuildRenderTree() if you want to build markup-less component (no .razor file).  If you create a .razor file, the override of BuildRenderTree() method is generated for you from the markup.	OnAfterRender  OnAfterRenderAsync and OnAfterRender are called after a component has finished rendering. Element and component references are populated at this point.	Dispose  If a component implements IDisposable, the Dispose method is called when the component is remove from the UI.
Blazor Infrastructure	base.SetParametersAsync()  SetParameterProperties()  StateHasChanged()  ShouldRender()  AddToRenderQueue()  AddToRenderQueue()			HandLeEventAsync()  StateHasChanged()  ShouLdRender()  AddToRenderQueue()	ProcessRenderQueue()	NotifyRenderCompleted()	Dispose()	
Component User Code	override SetParametersAsync() START	OnInitialized() OnInitializedAsync()	OnParametersSet() OnParametersSetAsync()	override SetParametersAsync() END	event callback	BuildRenderTree()  markup code	OnAfterRender OnAfterRenderAsync	<pre>IDisposable.Dispose()</pre>
Blazor Infrastructure	SetParameterPropert	ShouldRe	nged() StateHas	sChanged() ildRender() ToRenderQueue()	HandleEventAsync()  StateHasChanged()  ShouldRender()  AddToRenderQueue()	ProcessRenderQueue()	NotifyRenderCompleted()	Dispose()
Component User Code	override SetParametersAsync() START	OnInitialized() OnInitializedAsync()	OnParametersSet() OnParametersSetAsync()	override SetParametersAsync() END	event callback	BuildRenderTree()  markup code	OnAfterRender(true) OnAfterRenderAsync(true)	IDisposable.Dispose()
Blazor Infrastructure	SetParameterPropert	ShouldRer	ged() StateHas	Changed() LdRender() ORenderQueue()	HandleEventAsync()  StateHasChanged()  ShouldRender()  AddToRenderQueue()	ProcessRenderQueue()	NotifyRenderCompleted()	Dispose()
Component User Code	override SetParametersAsync() START	OnInitialized() OnInitializedAsync()	OnParametersSet() OnParametersSetAsync()	override SetParametersAsync() END	event callback	BuildRenderTree()  markup code	OnAfterRender(false) OnAfterRenderAsync(false)	IDisposable.Dispose()
Blazor Infrastructure	SetParameterPropert:			Changed() ldRender() oRenderQueue()	HandLeEventAsync()  StateHasChanged()  ShouLdRender()  AddToRenderQueue()	ProcessRenderQueue()	NotifyRenderCompleted()	Dispose()
Component User Code	override SetParametersAsync() START	OnInitialized() OnInitializedAsync()		override SetParametersAsync() END	event callback	BuildRenderTree()  markup code	OnAfterRender(false) OnAfterRenderAsync(false)	IDisposable.Dispose()
Blazor Infrastructure	SetParameterPropert:			Changed() ldRender() oRenderQueue()	HandleEventAsync()  StateHasChanged()  ShouldRender()  AddToRenderQueue()	ProcessRenderQueue()	NotifyRenderCompleted()	Dispose()
Component User Code	SetParametersAsync()	OnInitialized() OnInitializedAsync()		override SetParametersAsync() END	event callback	BuildRenderTree() markup code	OnAfterRender(false) OnAfterRenderAsync(false)	IDisposable.Dispose()
		and fill static data (select	load and set values (edited object,)		act on events (save values,)		activate third-party JS libraries that operate on the rendered DOM elements (on firstRender=true).	deregister third-party JS libraries that operated on the removed DOM elements