# Blazor Server
## Components

# Creating a page

- Consider the example from the first workshop.

- Let's modify the previous code to encapsulate it all in a component.

- This would make the code in the HomePage component much easier to read.

- Create a new component called Card.razor in the Home feature folder.

- Then replace the boilerplate code with the markup for the card from the Index page

# Creating a page

CardComponent.razor

```razor
<div class="card shadow" style="width: 18rem;">
  <img src="@card.Image" class="card-img-top" alt="@card.Name">
    <div class="card-body">
      <h5 class="card-title">@card.Name</h5>
      <h6 class="card-subtitle mb-3 text-muted">
       <span class="oi oi-map-marker"></span>
         @card.Name
      </h6>
    (...)
    </div>
   }
  </div>
 }
(...)
```

Now we have a problem. How do we get access to the current card data? The answer is parameters

# Creating a page

- We can pass data into components via parameters.

- Think of these as the public API for a component, and they work one way, from parent to child.

- We can define them in the code block by creating a public property and decorating it with the Parameter attribute.

- We pass data into them from the parent using attributes on the component tag.

# Creating a page

- In addition to using the Parameter attribute, we've also added another attribute called EditorRequired.

- We can use it to indicate that a parameter is required.

- If we try to use the Card component now, without passing a card to the card parameter, we'll get a warning.

CardComponent.razor

```
(...)
@code {
  [Parameter, EditorRequired]
  public Card card { get; set; } = default!;
}
```

https://gist.github.com/brunobmo/179839ff0f1c0a6e15153d09a1fb2dc0

# Creating a page

- Let's update Index.razor

```razor
@if (_cards == null) {
    <p>Loading cards...</p>
}
else{
    <div class="grid">
     @foreach (var card in _cards) {
       <CardComponent card="card" />
     }
    </div>
}
```

https://gist.github.com/brunobmo/fd3321a13ea263a7be44764115ebb4bb

# Final Result

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