Adding Forms and Validation



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Module overview



Understanding data binding

Creating a form with input components

Adding validation

Understanding Data Binding

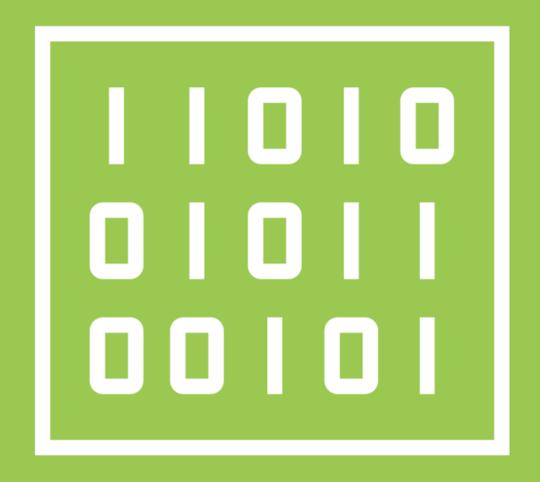
```
<h1 class="page-title">
    Details for @FirstName @LastName
</h1>
public string FirstName { get; set; }
public string LastName { get; set; }
```

Displaying Data

One-way binding

```
<input type="text" class="form-control-plaintext">
    @Employee.FirstName
</input>
public Employee Employee { get; set; }
```

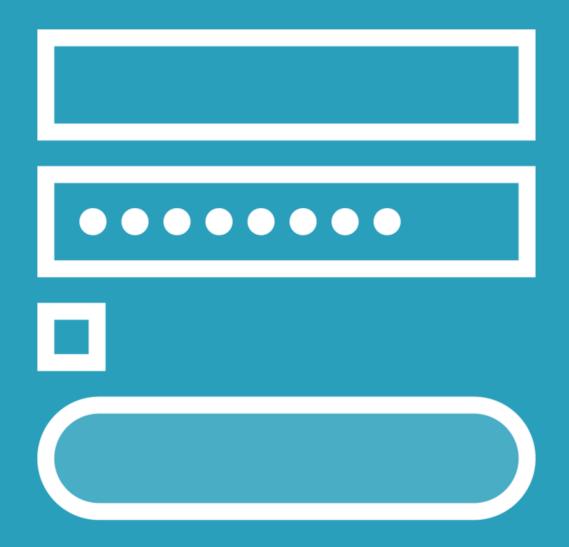
Displaying Data in a Form Control



Data Binding

@bind directive

Can bind to property, field or Razor expression



Working with a form

Allowing the user to enter data

Will typically send the data to the API

Use HTML form components or Blazor form components

```
<input id="lastName" @bind="@Employee.LastName"
placeholder="Enter last name" />
```

Data Binding in a Form Control

Using the @bind directive
Data flows in two directions
Triggers when focus leaves the input

```
<input id="lastName" @bind-value="Employee.LastName"
     @bind-value:event="oninput"
     placeholder="Enter last name" />
```

Data Binding on a Different Event



Working with data binding

Creating a Form with Input Components

Forms in Blazor



EditForm



Built-in input components



Data binding

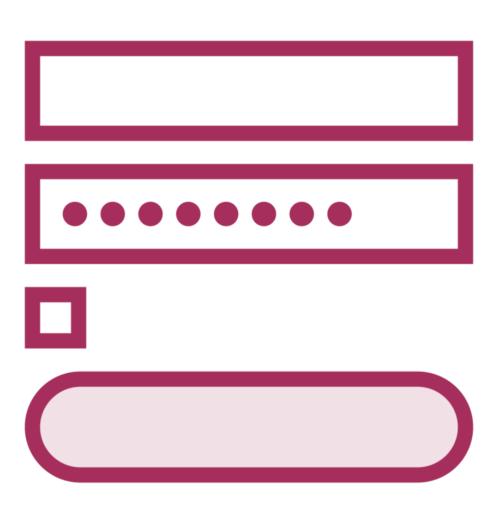


Validation support

A First EditForm

```
<EditForm Model="@Employee" > </EditForm>
```

```
public Employee Employee { get; set; } = new Employee();
```



Input components

- InputText
- InputTextArea
- InputNumber
- InputSelect
- InputDate
- InputCheckbox
- InputRadio
- InputRadioGroup
- InputFile

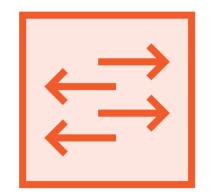
Input Components



Inherit from InputBase



Basic validation included (depending on used component)



Support two-way data binding

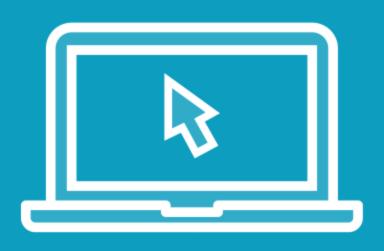
Adding Input Components to the EditForm

Using the InputSelect

Submitting the Form

OnInvalidSubmit OnValidSubmit OnSubmit

Submitting the Form



Adding the Add Employee form
Using input components
Editing an employee



Saving the data



Adding an image

Adding Validation

Validation in the EditForm

Data annotations support **DataAnnotationsValidator ValidationSummary**

```
public class Employee
{
     [Required]
     [StringLength(50, ErrorMessage = "Last name is too long.")]
     public string LastName { get; set; } = string.Empty;
}
```

Applying Data Annotations on the Model

Using the DataAnnotationsValidator

Support for validation using data annotations Field validation on tab out of the field Submit of form doesn't call HandleValidSubmit

```
<EditForm Model="@Employee"
    OnValidSubmit="@HandleValidSubmit"
    OnInvalidSubmit="@HandleInvalidSubmit">
        <DataAnnotationsValidator />
        <ValidationSummary />
    </EditForm>
```

Displaying Errors with the ValidationSummary

Errors are only displayed by adding this component

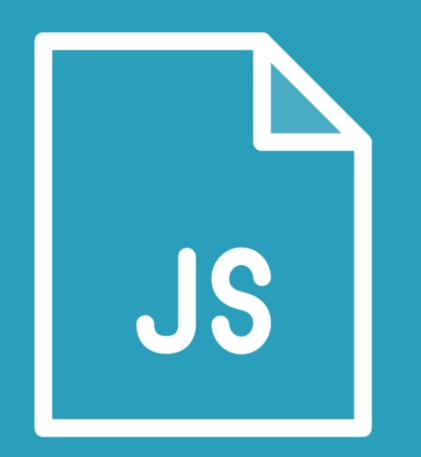


Applying data annotations on the model Displaying validation errors in the form

Summary



Forms are based on built-in components
Input components support data binding
Basic validation support using data
annotations



Up next:Using JavaScript from Blazor