Don't Forget the Validation of Data



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Goals



Angular validation basics
HTML changes for Angular validation
Controller changes for Angular validation
Server-side validation

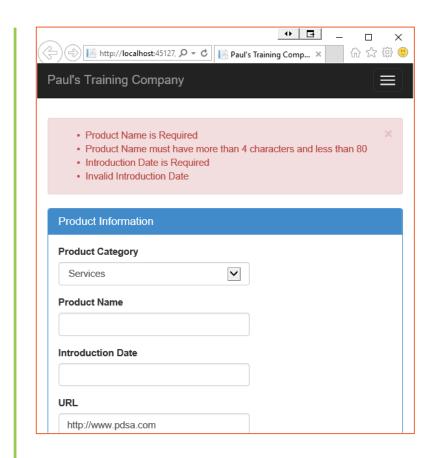


Angular Validation Basics



Basics of Validation

- Create form tag with name
 - <form name="productForm" novalidate>
- Can check state of form
 - productForm.\$valid
 - All controls are valid





Basics of Validation

- Set name attribute
 - On all input fields you wish to validate
- Add HTML 5 attributes
 - required
 - min
 - max
- Add Angular attributes
 - ng-minlength
 - ng-maxlength

```
<input id="price"
    name="price"
    required
    min="0"
    max="9999"
    type="number"
    class="form-control"
    ng-model="product.Price" />
```

```
<input id="productName"
    name="productName"
    type="text"
    required
    ng-minlength="4"
    ng-maxlength="80"
    class="form-control"
    ng-model="product.ProductName" />
```



```
ng-show="productForm.productName.$error.required">
   Product Name is Required

ng-show="!productForm.productName.$valid">
   Product Name must have more
   than 4 characters and less than 80
```

Display validation messages

- Use ng-show
- Use the format:
 - <form name>.<control name>.\$<property>



Demo



Modify HTML



Controller Changes to Support Validation



Modify Controller for Validation

Modify saveClick function

Check productForm.\$valid

Set is Valid value appropriately

\$setPristine() to handle server-side validation

Write custom validation



Demo



Controller changes



Server-Side Validation



Don't Rely on Client-Side Validation

Hackers can by-pass

Can't do everything clientside



Need Server-Side Validation

Need to re-validate all data

Use EF for validation

Convert EF Model State to Web API Model State

Return BadRequest()



More Business Rules

- Add 400 case in handleException
- Get ModelState from data property
- Loop through validation errors
- Add message to messages array



Demo



Server-side validation



Summary



Learned Angular validation

- HTML 5 validation
- ng-* validation

Additional validation on client-side

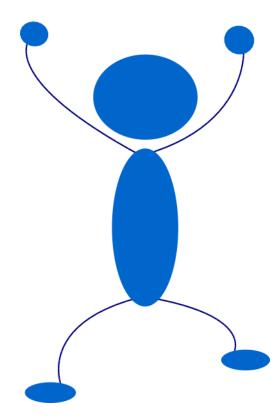
Server-side validation

- Communicating back to client



Course Summary

- Step-by-step we moved to Angular
- Replaced a lot of Razor code
- Learned to work with...
 - Modules and controllers
 - \$http data service
 - Data binding
- Eliminated all post backs





Course Summary

- Built drop down lists
- Built HTML tables
- Worked with UI state
- Added, edited and deleted data
- Learned to validate data

I hope you enjoyed this course!

