Building Apps with AngularJS and BreezePart 2

Client Validation

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What We'll Cover

Types of Client Validation

Breeze Validation Directives

Free Validation with Breeze

Creating
Custom
Validation Rules

Validation Configuration Options

Styling

Validation Mantra

Validation on the Server for Data Integrity

Validation on the Client for User Experience



Client Validation Experience

Do you validate changes on the client for a better user experience?

First Name Brad	*	
Green Email	*	*
bradg Blog		The email 'bradg' is not a valid email address
http://bradg.contoso.com		
Twitter		
@bradlygreen		

View Level vs Model Level Validation

View Level

Should you copy business rules to HTML?

Model Level

Shouldn't the model drive the UI?

HTML5 Validation

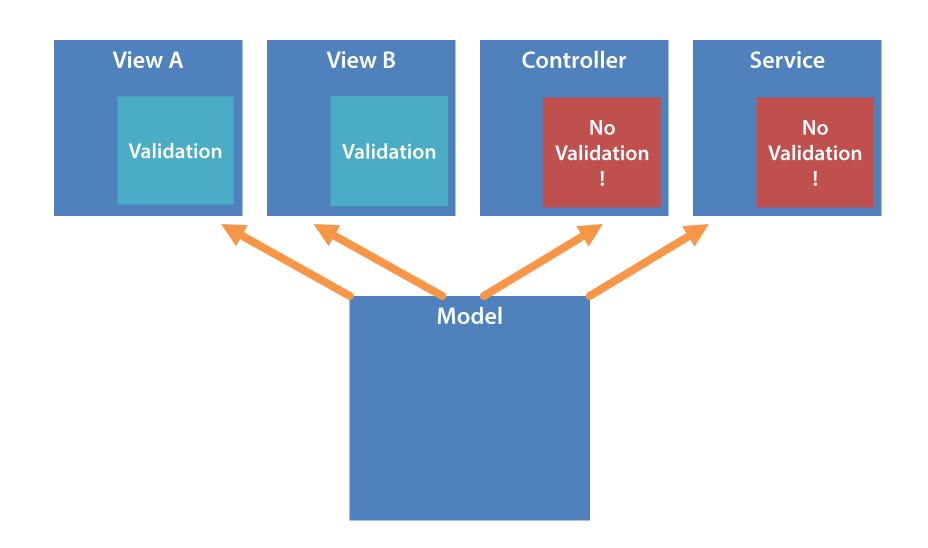
View Level Validation

Custom Rules Still Go to JavaScript

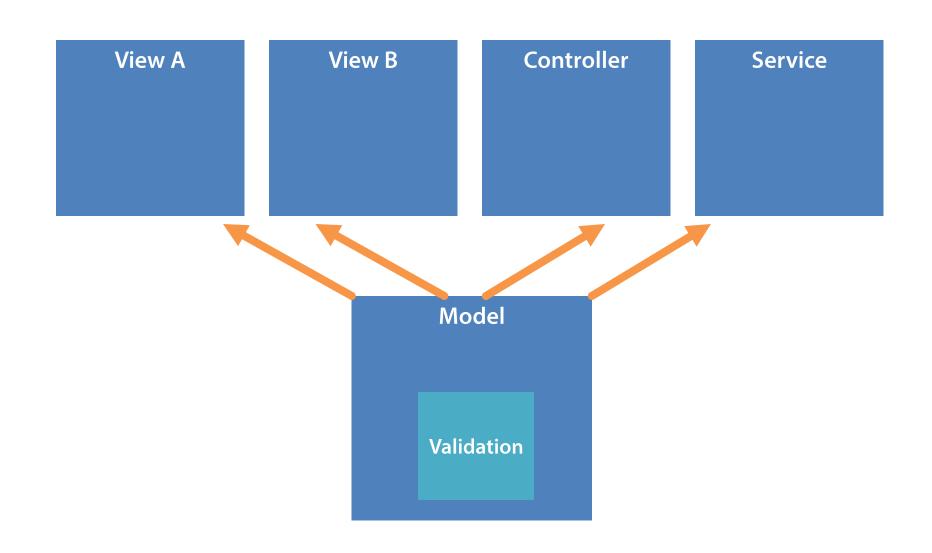
Lots of Attributes

View Has Awareness of How to Validate

HTML5 Validation



Model Validation



zValidate Directive

Model Level Validation

Responds to Changes on Properties

Separation of
How You from How You
Calculate the Display It
Validation Error

We Get Validation Whether the Property is Displayed or Not

Validation for User Experience

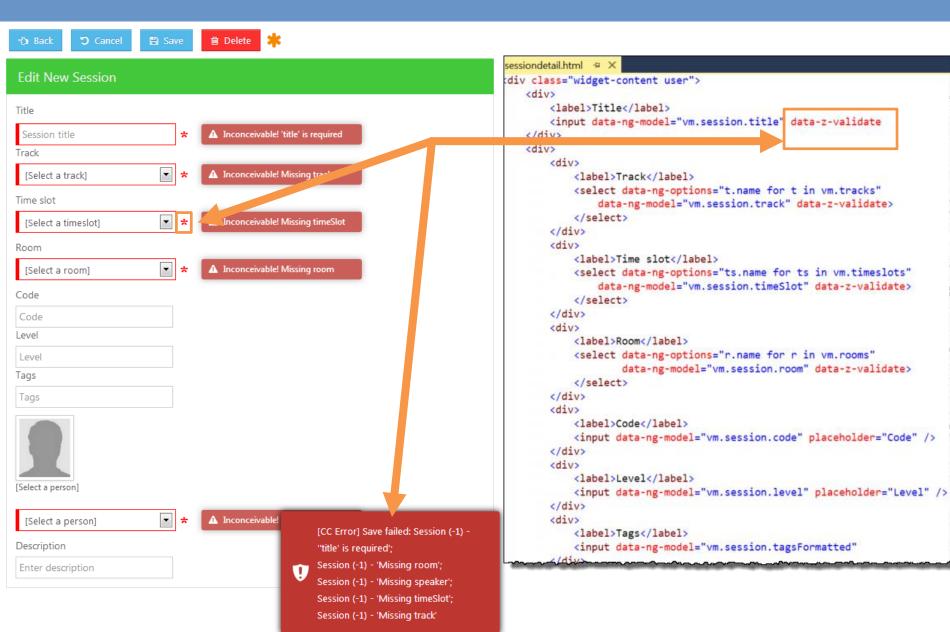


Breeze Reads Metadata from the Server

Required

```
[Required, MaxLength(50)]
public string Title { get; set; }
public string Code { get; set; }
public int SpeakerId { get; set; }
public int TrackId { get; set; }
public int TimeSlotId { get; set; }
public int RoomId { get; set; }
public string Level { get; set; }
public string Tags { get; set; }
public string Description { get; set; }
public virtual Person Speaker { get; set; }
public virtual Track Track { get; set; }
public virtual TimeSlot TimeSlot { get; set; }
public virtual Room Room { get; set; }
public virtual ICollection<Attendance>
   AttendanceList { get; set; }
```

Model Level Validation

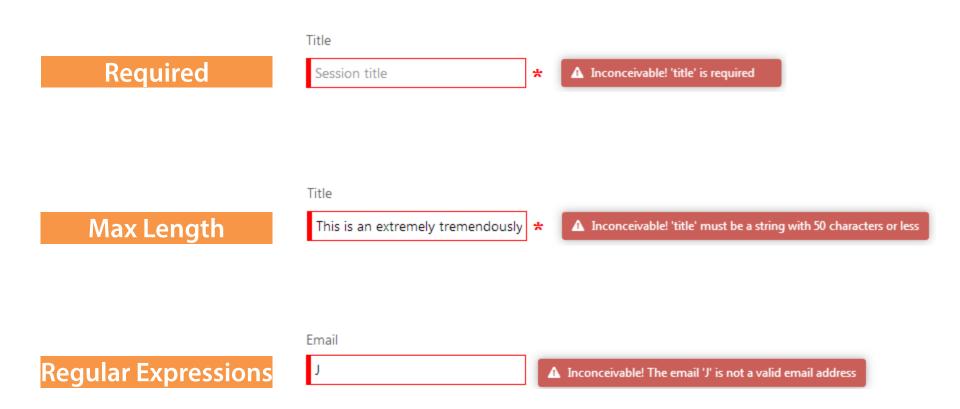


Breeze Validation Directive

Property to Validate

Tell Breeze to Validate and Display, if Appropriate

Validation Examples



Applying Custom Validation

```
var name = 'requireReferenceEntity';
            var ctx = { messageTemplate: 'Missing %displayName%', isRequired: true };
Create
            var requireReferenceValidator = new Validator(name, valFunction, ctx);
            function valFunction(value) { return value ? value.id !== 0 : false; }
             Validator.register(requireReferenceValidator);
Register
            var entityType = metadataStore.getEntityType('session');
 Apply
            entityType.getProperty('room')
```

.validators.push(requireReferenceValidator);

Key Validation Learnings

Types of Client Validation

Some Validation is Free

Configure

zValidate

Custom Validation

Style