Optimize Your JavaScript

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Our Goals

Standardize
Client/Server
Communication

Provide
Consistency
Between Client
and Server Code

Leverage Conventions and Strong-Typing Drastically
Reduce
Boilerplate
Markup

Outline

Review Fail Tracker

Build A Better JsonResult Class

Build Client-Side Alert Service

Globally Handle Client-Side Errors

Easily Access C# View Models In JavaScript

Build A Convention-Driven AngularJS Editor Template

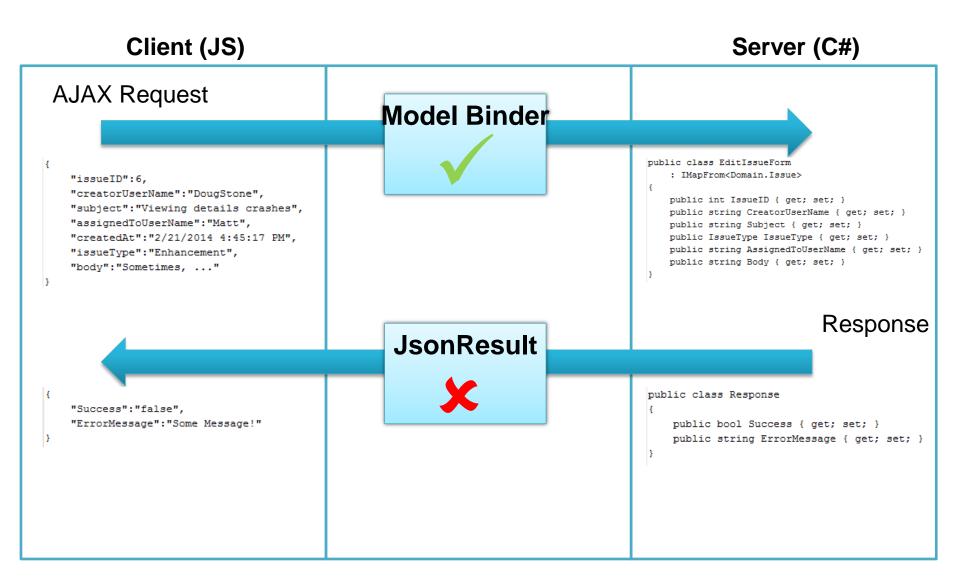
AngularJS



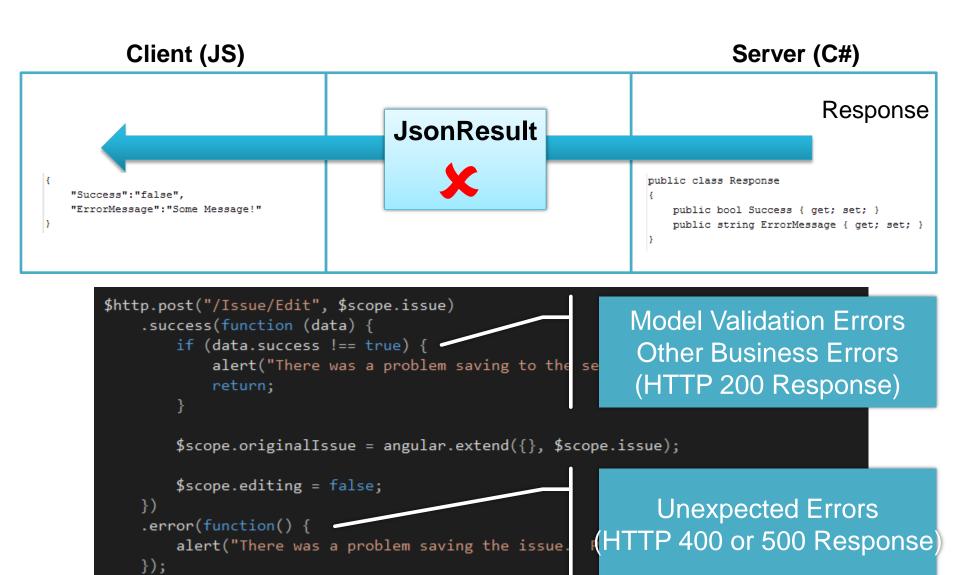
AngularJS Docs: http://goo.gl/QPluN

AngularJS Fundamentals Course: http://goo.gl/qVC

Standardizing Client/Server Communication

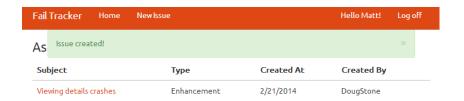


Standardizing Client/Server Communication



A Client-Side Alert Service

ASP.NET MVC







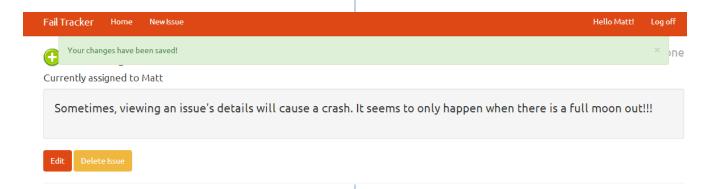
A Client-Side Alert Service

ASP.NET MVC

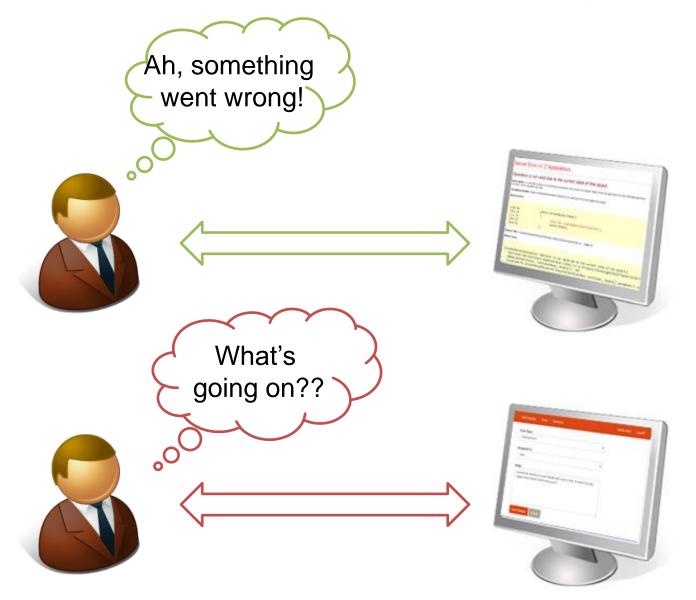








Client-Side Error Handling



Easy-Access to C# View Models From JavaScript

```
blic class IssueDetailsViewModel
 : IMapFrom<Domain.Issue>
                                                                      issueID
 public int IssueID { get; set; } |
                                                                      subject
 public string Subject { get; set; }
                                                                      creatorUserName
 public string CreatorUserName { get; set; }
 public string AssignedToUserName { get; set; }
                                                                      assignedToUserName
 public DateTime CreatedAt { get; set; }
                                                                      createdAt
 public IssueType IssueType { get; set; }
                                                                      issueTpye
 public string Body { get; set; }
                                                                      body
```

Easy-Access to C# View Models From JavaScript



Wrapping It Up: An AngularJS Editor Template

After Module 4...

Wrapping It Up: An AngularJS Editor Template

Now...

```
<div class="form-horizontal" ng-cloak ng-hide="!editing">
   <h2>Edit Issue</h2>
   <div class="form-group">
       <label class="col-md-2 control-label">Creator User Name</label>
       <div class="col-md-10">
           {{issue.creatorUserName}}
       </div>
   <div class="form-group">
       <label class="col-md-2 control-label" for="Subject">Subject</label>
       <div class="col-md-10">
           <input class="form-control" required id="Subject" name="Subject" placeholder="Subject..." type="text"</pre>
   <div class="form-group">
       <label class="col-md-2 control-label" for="IssueType">Issue Type</label>
       <div class="col-md-10">
           <select class="form-control" id="IssueType" name="IssueType" ng-model="issue.issueType">
               Oforeach (var option in issueTypeOptions)
                  <option value="@option.Value">@option.Text</option>
           </select>
   <div class="form-group">
       <label class="col-md-2 control-label" for="AssignedToID">Assigned To</label>
       <div class="col-md-10">
           <select class="form-control" id="AssignedToID" name="AssignedToID" ng-model="issue.assignedToUserName"</pre>
               Oforeach (var option in availableUserOptions)
                   <option value="@option.Value">@option.Text</option>
           </select>
           <span class="field-validation-valid" data-valmsg-for="AssignedToID" data-valmsg-replace="true"></span>
```

Wrapping It Up: An AngularJS Editor Template

Our Goal...

Summary



Assessed The "Damage"



Built A Better JsonResult Class



Built A Client-Side Alert Service



Globally-Handled JavaScript Errors



Streamlined C# View Model to JSON Conversion



Created An AngularJS Editor Template

Before & After

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           <span class="field-validation-valid" data-valmsg-for="AssignedToID" data-valmsg-replace="true"></span>
```

Before & After

The End... For Now?

Focus On Your Pain

Solve Your Pain

Start Now!

Establish Cleanup Rules

GROW Your Framework

Build Your Own Application Framework With ASP.NET MVC 5

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