SharePoint 2013 Dev with CSOM and REST – Custom and Legacy Web Services

Rob Windsor @robwindsor



Module Outline

- Custom WCF Services
 - Status and Notifications
- SOAP Web Services
- SharePoint 2010 REST API

Custom WCF REST Services

Why?

- Can't do it using CSOM or REST
- Hard to do it using CSOM or REST
- Abstraction layer

Implementation details

- Service must be ASP.NET compatible
 - AspNetCompatibilityRequirements attribute
- Dynamic configuration factory
 - MultipleBaseAddressWebServiceHostFactory
- Remainder is just WCF Web/REST service development

```
<%@Servi ceHost
   Language="C#"
   Servi ce="<class name>, <assembly name>"
   Factory="Mi crosoft. SharePoi nt. Client. Servi ces.
   MultipleBaseAddressWebServi ceHostFactory,
   Mi crosoft. SharePoi nt. Client. ServerRuntime, Versi on=15. 0. 0. 0,
   Culture=neutral, PublicKeyToken=71e9bce111e9429c" %>
```

Status and Notifications

Status Bar

- □ SP.UI.Status
- Persistent information
- ¬ Shows below ribbon
- Different color for different levels of importance

Notification

- SP.UI.Notify
- Transient messages
- Show on right side of page below ribbon
- Show for five seconds by default

```
var messageId = SP. UI. Notify. addNotification(html, sticky);
...
SP. UI. Notify. removeNotification(messageId);
```

SOAP Web Services

- ASP.NET (ASMX) Web Services
 - SOAP
 - XML heavy
- Have been "deprecated" for last couple versions
- Managed code
 - Use WSDL to add Web reference
- JavaScript
 - Can construct SOAP envelopes and call services using jQuery
 - Easier to use SPServices
 - jQuery plugin that wraps calls to SOAP services
 - http://spservices.codeplex.com/

SharePoint 2010 REST API (ListData.svc)

- CRUD operations on List data
- Service does expose metadata

Managed code

- Add WCF service reference
- Use LINQ to query data

JavaScript

Use service basically the same way as SharePoint 2013 REST API

Summary

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