Saving, Change Tracking and Validation

John Papa

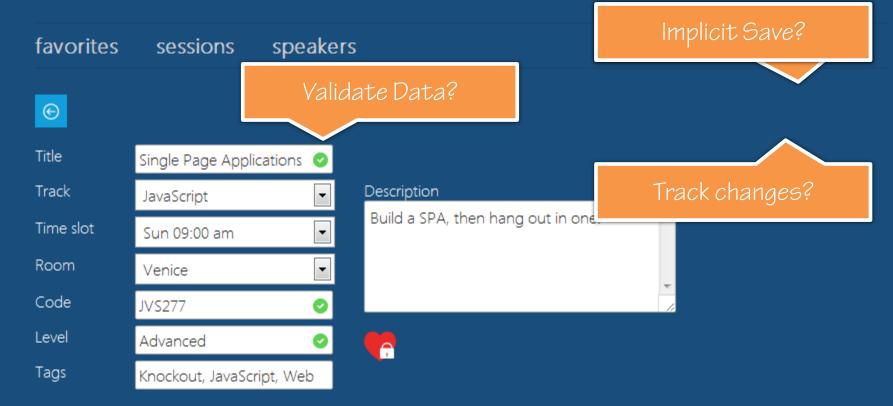
Twitter: @john papa



- Change Tracking
- Asynchronous Commands
- Saving Data
- Validation



CODE CAMPER





John Papa

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Why Track Changes?

Enabling / Disabling of Buttons



Prevent Navigation

Please save or cancel your changes before leaving the page.

Make sure the user is done

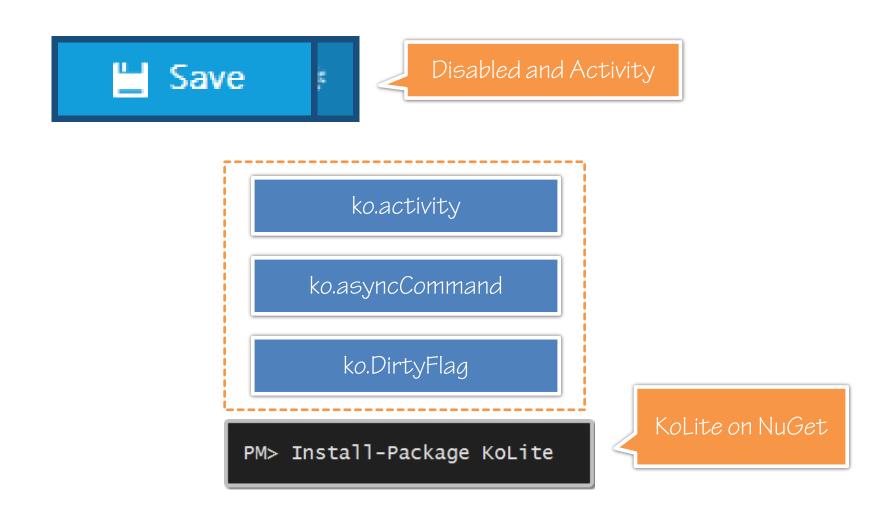


- KoLite
 - ko.dirtyFlag
 - https://nuget.org/packages/KoLite

PM> Install-Package KoLite

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Asynchronous Commands



Defining a ko.asyncCommand

Define the command The Function to Execute saveCmd = ko.asyncCommand({ execute: function(complete) { \$.when(datacontext.persons.updateData(speaker())) .always(complete); **}**, Save the Data canExecute: function(isExecuting) { return !isExecuting && isDirty() && isValid(); Define the Conditions When the User Can Save

Binding a ko.asyncCommand

```
<button data-bind="command: saveCmd, activity: saveCmd.isExecuting">
Save</button>
```

```
saveCmd = ko.asyncCommand({
   execute: function(complete) {
        $.when(datacontext.persons.updateData(speaker()))
            .always(complete);
    },
    canExecute: function(isExecuting) {
        return !isExecuting && isDirty() && isValid();
```

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Defining Model Validation

```
Common Rules
self.firstName = ko.observable().extend({ required: true });
self.email = ko.observable().extend({ email: true });
                                             Built in Validation Rule
self.blog = ko.observable().extend({
        pattern: {
            message: 'Not a valid url',
            params: /[@]([A-Za-z0-9_]{1,15})/i
    });
           Custom Validation Rule
```

Knockout Validation Plug-In

Define validation on observables

Configure behavior

Check validation errors

PM> Install-Package Knockout.Validation

http://nuget.org/packages/Knockout.Validation

Saving Data - Recap

Saving Data

datacontext to dataservice to Web API

KoLite

- Change Tracking
- Asynchronous Commands
- Command Activity
- https://nuget.org/packages/KoLite

Validation

- HTML5 and JavaScript based
- Knockout.Validation
 - http://nuget.org/packages/Knockout.Validation

PM> Install-Package KoLite

PM> Install-Package Knockout.Validation