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Angular JS Custom directive for Button Dropdown

Angular JS Custom Directive for Button Dropdown

(Reusable component for all the projects)



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VERSION CONTROL

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|---------------------------|---|--|
| Date: | 5/11/2015 | |
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| Date: | 29/12/2015 | |

VERSION HISTORY

| Date | Version | Author | Description |
|------------|---------|-------------------------|-----------------------|
| 5/11/2015 | 0.1 | Kumar Sahoo, Srikant | Initial Draft Version |
| 9/11/2015 | 1.0 | B.C.Subramanian | Final Reviewed |
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1. Introduction to Angular JS CUSTOM DIRECTIVE FOR BUTTON DROPDOWN

1 Introduction

Custom directives are used in AngularJS to extend the functionality of HTML. Custom directives are defined using "directive" function. A custom directive simply replaces the element for which it is activated.

AngularJS application during bootstrap finds the matching elements and do one time activity using its compile () method of the custom directive then process the element using link () method of the custom directive based on the scope of the directive.

Directives are markers on a DOM element (such as an attribute, element name, comment or CSS class) that tell AngularJS's HTML compiler (\$compile) to attach a specified behaviour to that DOM element (e.g. via event listeners), or even to transform the DOM element and its children.

- ButtonDropDown directive is used to work on multiple action through single button.
- Includes both a select-style dropdown and a menu-style dropdown. The menu-style dropdown attaches to an existing element (button, link, div, etc), whereas the select-style dropdown replaces the element it is attached to.

1.1 Purpose

• The ButtonDropDown is mostly used to do multiple action through single button element. So that the multiple actions will be triggered from parent button clicks.

1.2 Supporting elements by angularis to create directive for dropdown

- Element directives Directive activates when a matching element is encountered.
- Attribute Directive activates when a matching attribute is encountered.
- CSS Directive activates when a matching css style is encountered.
- **Comment** Directive activates when a matching comment is encountered.

1.3 INTENDED AUDIENCE

General Users who use the application:

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- ✓ General users will use the ButtonDropDown to do specific action in page.
- UI Developers:

UI Developers who want to work on refining or adding new functionalities to the directive will be able to understand the basic logic and mechanisms very swiftly upon referring this document.

1.4 DEFINING A DIRECTIVE

This section lists simple steps to define a custom directive in an AngularJS module. First, we need to define an Angular app.

```
Now, define a directive.

myApp.directive('myDirective', function() {
    return {
        restrict: 'E',
        template: '<h1>I made a directive!</h1>'
        };
```

var myApp = angular.module('myApp', []);

This defines a directive restrict: 'E' means "restrict the usage of this directive to only Elements." Thus we embed this directive in the HTML page as

```
<br/><body ng-app="myApp">
<my-directive></my-directive>
</body>
```

This code piece is equivalent to

});

```
<br/><body ng-app="myApp">
<h1>I made a directive!</h1>
</body>
```

Note that AngularJS maps the naming conventions from HTML's my-directive to JavaScript"s myDirective



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1.5 SAMPLE CODE

1.5.1 ANGULAR DIRECTIVE CODE

```
(function () {
    angular.module('projectNameUI.common.projectNameForm').directive('projectNameDynamicAttrButtonDropdown', projectNameDynamicAttrButtonDropdown);

/* @ngInject */
    function projectNameDynamicAttrButtonDropdown($compile){

    var directive = {
        restrict: "E',
        templateUrl: 'app_modules/common/projectNameForm/directives/views/projectNameButtonDropdown.html',
        scope:{
            configJSON: '=configjson',
            changeFunction: '&change'
        },

        link: function (scope, element, attrs, ctrl, $log) {
        }
    };
    return directive;
}

}();
```

1.5.2 HTML VIEW CODE

```
(button id="split-button" type="button" class="btn btn primary" style="margin-right: 0px;"){{itemInfo.label}}

(button)

(button type="button" class="btn btn primary" wib-dropdown-toggle ng-disabled="disabled")
(button type="button" class="btn btn primary" wib-dropdown-toggle ng-disabled="disabled")
(class="caret")
(class="btn_dropmenu_options wib-dropdown-menu_wib-dropdown wil" style="width: auto limportant;border: 1px solid #OCOBOB;border-top: none;list-style:

none;overflow: hidden;border-radius: 0px 0px 5px 5px;"id="test" role="menu" aria-labelledby="single-button")

(ii class="divider" ng-hide="select.show === falge" ng-repeat="select in itemInfo.Val.options")

(iii class="divider" ng-hide="select.show === falge" ng-repeat="select in itemInfo.Val.options")

(iii class="divider" ng-hide="select.show === falge" ng-repeat="select in itemInfo.Val.options")

(iii class="divider" ng-hide="select.show === falge" ng-repeat="select in itemInfo.Val.options")

(iii)

(iiii)

(iii)

(iii)

(iii)

(iii)

(iii)

(iii)

(iii)

(iii)

(iii
```

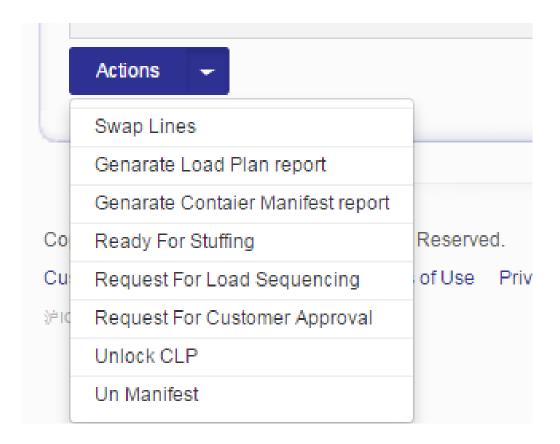
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2. BUTTON DROPDOWN INFORMATION USING ANGULAR JS

2.1 VIEW (SAMPLE DATA)





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2.2 GENERAL INFORMATION ABOUT THE DIRECTIVE

View



• Directive Name:

ojectName>-dynamic-attr-button-dropdown

• Directive Type:

Button Dropdown directive

• Attributes to add:

Two attributes needs to add **configjson="configJSON" and change="Action"** at the time of implementation .

Ex:-

• Location:

Directive: Directive:

 $< Project Name > _Cust Apps_Web_UI_Client \\ app_modules \\ common\\ project Name Form\\ directives\\ project Name Button Dropdown. js$

View:

 $< Project Name > _Cust Apps_Web_UI_Client \land app \land app_modules \land common \land project Name Form \land directives \land views \land project Name Button Drop down. html$



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2.3 DB JSON OBJECT STRUCTURE

2.4 JSON OBJECT VARIABLE DETAILS

| Variable Name | Accepts type | Explanation |
|--------------------|------------------|-------------------------------------|
| type | btn_dropdow n | Directive Type "projectNamebutton " |
| label | String | |
| name | String | Used in view page |
| Class | String | Primary or secondary |
| show | Boolean | Display or hide |
| projectNameVa l | String | Option available in button dropdown |

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2.5 CURRENT ISSUES AND ADDRESSES

- All Console.log() usages have been removed from the directive.
- HTML view and the Directive have been separated.
- Unused scope variables have been removed.

2.6 Pros and Cons

Pros:

- Easy way of creating button dropdown with the required functionalities with minimal HTML code.
- Re-usable component which will be used across the application.

Cons:

• Need to have some understanding in the directive code to use it to good effect.