

Angular JS custom directive for File – UI Reusable component

Angular JS Custom Directive for File

(Reusable component for all the projects)



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VERSION CONTROL

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VERSION HISTORY

| Date | Version | Author | Description |
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| 5/11/2015 | 0.1 | Kumar Sahoo, Srikant | Initial Draft Version |
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| | | | |
| | | | |



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1. Introduction to angular JS custom directive for file

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.

<projectName>file is a custom directive used for uploading files.

1.1 Purpose

• The ctNamebutton is used to upload input documents or files.

1.2 Supporting elements by angular js to create directive for Grid

- 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.

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1.3 INTENDED AUDIENCE

- General Users who use the application:
- 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.

```
var myApp = angular.module('myApp', []);
Now, define a directive.

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

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

1.5.2 HTML VIEW CODE



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2. FILE DIRECTIVE INFORMATION USING ANGULAR JS

2.1 VIEW (SAMPLE)



2.2 GENERAL INFORMATION ABOUT THE DIRECTIVE

• Directive Name:

cprojectName>-dynamic-attr-file

• Directive Type:

File Level Directive

• Attributes:

There are 3 parameters needs to add to implement in projectName>File

- a) configjson="configJSON"
- b) **Click :-**It is used to tell the directive what is the function name is used in controller .(Do not add curly braces in function name)
- c) submitted="submitted"

<<pre><<pre><<pre><<pre><<pre>configjson="configJSON" click="functionName" submitted="submitted" />

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2.3 DB JSON OBJECT STRUCTURE

```
"Packing_List_File": {
      "type" : "file",
      "label": "Packing List File",
      "name": "Packing_List_File",
      "show": true,
      "fileText": "packing",
      "link": "onFileSelect($files,'application/x-zip-compressed')",
      "rojectName>Val" : {
        "required": true,
        "pattern": "/^[a-zA-Z0-9/.]*$/",
        "maxLength": "30",
        "errorMessage" : {
           "required": "Required Field",
           "maxLength": "Maximum 30 characters",
           "pattern": "Alphanumeric characters only",
           "fileType": "Archive File Format (.zip) only",
           "fileSize": ""
      }
    }
```



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2.4 **JSON** OBJECT VARIABLE DETAILS

| Variable Name | Accepts type | Explanation |
|---------------|---------------------------|---|
| type | file | Directive Type " <projectname>button"</projectname> |
| label | String | |
| name | String | Used in view page |
| show | Boolean | Display or hide |
| fileText | String | Default Text |
| Link | String | Function name |
| required | Boolean | |
| pattern | File pattern | |
| maxlength | Max length Accepted | |

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.