Java-Success.com

Industrial strength Java Career Companion

search here …   **Go**

Home | **Java FAQs** | **600+ Java Q&As** | **Career** | **Tutorials** | **Member** | **Why?**

Can u Debug? | Java 8 ready? | Top X | Productivity Tools | Judging Experience?

More Angular JS Questions & Answers

Posted on March 25, 2015 by Arulkumaran Kumaraswamipillai

This extends 8 AngulatJS questions and answers .

Q9. How do you communicate between controllers in AngularJS?

A9. There are scenarios where you want to communicate between controllers. For example, when the submit button is clicked on the parent controller, some values need to be passed to the child controller to show or hide a button in the child form. In AngularJS you can do this with **$watch** and **$broadcast** on the parent controller and **$on** on the child controller.

$watch(watchExpression, listener, objectEquality)
: Registers a listener callback to be executed whenever the watchExpression changes.

$broadcast(name, args) : Dispatches an event name downwards to all child scopes (and their children) notifying the registered ng.$rootScope.Scope#$on listeners.

600+ Full Stack Java/JEE Interview Q&As ♥Free ♦FAQs

open all | close all

⊞ Ice Breaker Interview
⊞ Core Java Interview C
⊞ JEE Interview Q&A (3
⊞ Pressed for time? Jav
⊞ SQL, XML, UML, JSC
⊞ Hadoop & BigData Int
⊞ Java Architecture Inte
⊞ Scala Interview Q&As
⊟ Spring, Hibernate, & M
  ⊞ Spring (18)
  ⊞ Hibernate (13)
  ⊟ AngularJS (2)
    ♥ 8 AngularJS in
    More Angular JS
  ⊞ Git & SVN (6)
  ⊞ JMeter (2)
  ⊞ JSF (2)
  ⊞ Maven (3)
⊞ Testing & Profiling/Sa
⊞ Other Interview Q&A f
⊞ ▶Free Java Interview

Here is the sample code:

```
1     $scope.buttonClicked = 'N';
2
3     //invoked when $scope.buttonClicked value cha
4     $scope.$watch('buttonClicked', function(messa
5    //pass val = 'Y'
6    if (message != null) {
7     $scope.$broadcast('buttonClicked', {
8       "val" : message
9     });
10    $scope.buttonClicked = 'N';
11   }
12 });
13
14 //when submit button is clicked
15 $scope.onParentSubmitButtonClick = function() {
16  $scope.buttonClicked = 'Y';
17  if ($scope.clientId &amp;&amp; $scope.valuatio
18   $scope.httpError = null;
19    $scope.getCalcStatuses();
20  } else {
21   $scope.httpError = "Client id or valuation d
22  }
23
24 };
25
26
```

Now, in the child controller, you want to pass the value "val" to indicate that "submit" button has been clicked. "$scope.$broadcast" invokes $scope.$on on the child controllers.

```
1     $scope.$on('buttonClicked', function(event, ar
2    if (args.val == 'Y') {
3     $scope.filterText = null;
4    }
5
6    $timeout(function() {
7     $scope.isReleasable();
8     $scope.isSavable();
9           console.log('update with timeout fired
10     }, 2000);
11
12  $scope.isReleasable = function() {
13   if ($scope.calcViewStatuses != null) {
14    if ($scope.calcViewStatuses.ragStatus == 'GR
15     $scope.showReleaseButton = true;
16    } else {
17     $scope.showReleaseButton = false;
18    }
19   }
20  };
21
22
23  $scope.isSavable = function() {
24   if ($scope.calcViewStatuses != null) {
```

```
25      if ($scope.calcViewStatuses.releaseStatus ==
26       $scope.showSaveButton = false;
27      } else {
28       $scope.showSaveButton = true;
29      }
30     }
31    };
32
33  });
34
35
```

If you want to do the reverse, i.e. communicate from child to parent, you use the $scope.$emit.

$emit(name, args): Dispatches an event name upwards through the scope hierarchy notifying the registered ng.$rootScope.Scope#$on listeners.

Q10. What is a directive in AngularJS?

A10. **Directives** extends HTML. During DOM compilation directives are matched against the HTML and executed. This allows directives to register behaviour, or transform the DOM. ng-app, ng-controller, ng-model, etc are directives. The directives can be placed in element names, attributes, class names, as well as comments. Directives are defined with camel cased names such as ngApp and invoked by translating the camel case name into snake case with these special characters :, -, or _. For example ng-ap p as in <html ng-app>

Q11. When do you need to create your own directives? How will you go about creating a custom directive in AngularJS?

A11. There are instances where you want to use jQuery UI plugins. Recently, I had to use the **jQuery Resizable** plugin with angular to resize my TextArea in IE 8 as it is the standard browser used by our business and operational staff. Here are some code samples to get AngularJS and jQuery to work together. By default, the Angular JS is shipped with a lite version of jQuery, but not with the UI plugins.

Comments

Step 1: You need to define **directives**. Directives are a way to teach HTML new tricks. During DOM compilation directives are matched against the HTML and executed. I am using RequireJS to manage dependencies. here is myTextAreaWithModel.js file

```
1  'use strict';
2
3  define([ 'jqueryui' ], function() {
4
5    function myTextAreaWithModel() {
6      return {
7        require: 'ngModel',
8        // Restrict it to be an attribute in this cas
9        restrict : 'A',
10       // responsible for registering DOM listeners
11       // DOM
12       link : function($scope, $element, $attrs) {
13         jQuery(function() {
14           jQuery("textarea.resizableAreaWithModel").r
15         });
16       }
17     };
18   }
19
20   return myTextAreaWithModel;
21 });
22
23
```

Step 2: A sample bootstrapping JS file that uses require js to manage dependencies. The key here is to see how jquery-ui is loaded. You can choose to ignore the rest.

```
1  'use strict';
2
3  /**
4   * Configure JS file paths and dependencies
5   */
```

```
 6  var requireConf = {
 7      baseUrl: '.',      // This will be the path to
 8      shim: {
 9          'angular'                : { deps: ['jquery
10          'jqueryui'               : { deps: ['jquery
11          'bootstrap'              : { deps: ['jquery
12          'portal/portalCtrl'      : { deps: ['angula
13      },
14      paths: {
15          jquery   : 'lib/jquery/jquery',
16          jqueryui : 'lib/jquery/jquery-ui',
17          angular  : 'lib/angular/angular-module'
18          bootstrap : 'lib/bootstrap/js/bootstrap'
19          text     : 'lib/require/plugins/text'
20      },
21      waitSeconds: 0,                 // Disable t
22      urlArgs: ((myapp.debug) ? '' : 'v=' + (((new
23  };
24
25  require.config(requireConf);
26
27  /**
28   * Load JS resources for the portal (but not for
29   */
30  require([
31      'jquery',
32      'angular',
33      'portal/portalCtrl',
34
35  ], function (jq, angular, portalCtrl) {
36
37      angular.element(document).ready(function() {
38
39          // Load the root controller for the page
40          angular.module('portalModule.controller'
41              .controller('portalCtrl', portalCtrl
42
43          // Load all angular style resources
44          angular.module('portalModule', [
45              'portalModule.controller',
46              'portalModule.directives',
47              'portalModule.services',
48              'portalModule.filter'
49          ]);
50
51          // Bootstrap angular, this needs to be a
52          angular.bootstrap(document, ['portalModu
53      });
54  });
55
56
```

Step 3: Bootstrapping the "**myTextAreaWithModel**" using require js framework.

```
1  'use strict';
2
3  define([
4      'angular',
5      'utils/directives/myTextAreaWithModel'
```

```
 6  ], function (angular, myTextAreaWithModel) {
 7
 8      angular.module('portalModule.directives', []
 9         .directive('myTextAreaWithModel', myTex
10  });
11
```

Step 4: Finally the HTML code.

```
1      ....
2  <td width="30%">
3   <textarea class="resizableAreaWithModel comment
4      name="comments" ng-model="myAppStatus.commen
5      jp-text-area-with-model
6  />
7  </td>
8   ....
9
```

Directives in angularjs are very powerful.

Popular Member Posts

♦ 11 Spring boot interview questions & answers

904 views

♦ Q11-Q23: Top 50+ Core on Java OOP Interview Questions & Answers

816 views

001A: ♦ 7+ Java integration styles & patterns interview questions & answers

427 views

18 Java scenarios based interview Questions and Answers

408 views

♦ 7 Java debugging interview questions & answers

324 views

01b: ♦ 13 Spring basics Q8 – Q13 interview questions & answers

311 views

01: ♦ 15 Ice breaker questions asked 90% of the time in Java job interviews with hints

304 views

♦ 10 ERD (Entity-Relationship Diagrams) Interview Questions and Answers

301 views

♦ Q24-Q36: Top 50+ Core on Java classes, interfaces
and generics interview questions & answers

251 views

♦ Object equals Vs == and pass by reference Vs
value

234 views

0	Tweet	▲	0
Like		submit	G+1
Share		▼	Share
		reddit	

Bio	**Latest Posts**

Arulkumaran Kumaraswamipillai

Mechanical Eng to freelance Java
developer in 3 yrs. Contracting since 2003,
and attended 150+ Java job interviews, and
often got 4 - 7 job offers to choose from. It
pays to prepare. So, published Java
interview Q&A books via Amazon.com in
2005, and sold 35,000+ copies. Books are
outdated and replaced with this subscription
based site.**945+** paid members. join my
LinkedIn Group. **Reviews**

About Arulkumaran Kumaraswamipillai

Mechanical Eng to freelance Java
developer in 3 yrs. Contracting since
2003, and attended 150+ Java job
interviews, and often got 4 - 7 job offers
to choose from. It pays to prepare. So, published Java
interview Q&A books via Amazon.com in 2005, and sold
35,000+ copies. Books are outdated and replaced with
this subscription based site.**945+** paid members. join my
LinkedIn Group. **Reviews**

‹   What did others say about the Java interview companion?

03: ♦ More Java Multi-threading scenarios interview questions

answered   ›

Posted in AngularJS**,** member-paid

Empowers you to open more doors, and fast-track

Technical Know Hows

☀ [Java generics in no time](#) ☀ [Top 6 tips to transforming your thinking from OOP to FP](#) ☀ [How does a HashMap internally work? What is a hashing function?](#)
☀ [10+ Java String class interview Q&As](#) ☀ [Java auto un/boxing benefits & caveats](#) ☀ [Top 11 slacknesses that can come back and bite you as an experienced Java developer or architect](#)

Non-Technical Know Hows

☀ [6 Aspects that can motivate you to fast-track your career & go places](#) ☀ [Are you reinventing yourself as a Java developer?](#) ☀ [8 tips to safeguard your Java career against offshoring](#) ☀ [My top 5 career mistakes](#)

Prepare to succeed

☀ [Turn readers of your Java CV go from "Blah blah" to "Wow"?](#) ☀ [How to prepare for Java job interviews?](#) ☀ [16 Technical Key Areas](#) ☀ [How to choose from multiple Java job offers?](#)

Select Category ▼

© Disclaimer

The contents in this Java-Success are copy righted. The author has the right to correct or enhance the current content without any prior notice.

These are general advice only, and one needs to take his/her own circumstances into consideration. The author will not be held liable for any damages caused or alleged to be caused either directly or indirectly by these materials and resources. Any trademarked names or labels used in this blog remain the property of their respective trademark owners. No guarantees are made regarding the accuracy or usefulness of content, though I do make an effort to be accurate. Links to external sites do not imply endorsement of the linked-to sites.

© 2016   Java-Success.com   ↑   Responsive Theme **powered by** WordPress