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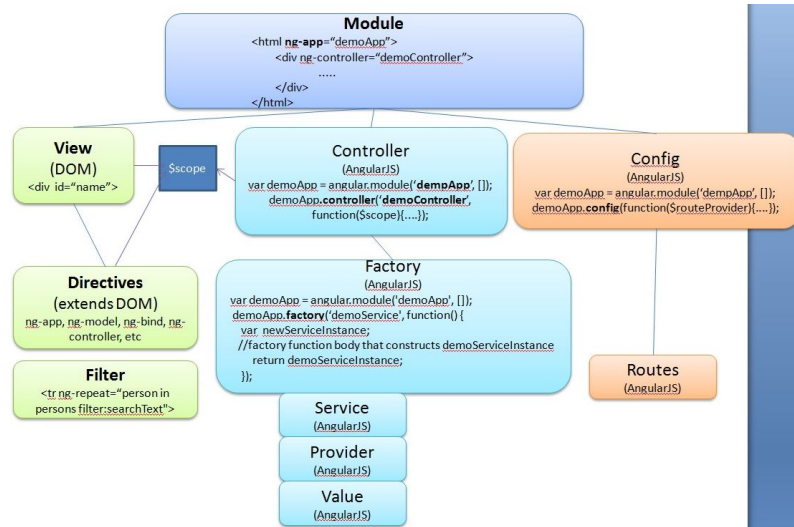
♥ 8 AngularJS interview questions & answers

Posted on March 24, 2015 by Arulkumaran Kumaraswamipillai

Angular JS and other JavaScript based MVW frameworks are getting so much attention.

Q1. Can you give a big picture of AngularJS highlighting its key components?
A1. A good diagram is worth 1000 words.

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angularjs big picture

Q2. What is a **scope** in AngularJS?

A2. scope is an object that refers to the application model. It is the **glue between application controller and the view**. Both the controllers and directives have reference to the scope, but not with each other. It is an execution context for expressions and arranged in hierarchical structure. Scopes can watch expressions and propagate events.

Q3. Can you explain the concept of **scope hierachy**? How many scopes can an application have?

A3. Each Angular application has exactly one root scope, but may have several child scopes. The application can have multiple scopes, because child controllers and some directives create new child scopes. When new scopes are created, they are added as children of their parent scope. This creates a hierarchical structure similar to the DOM where they're attached.

When Angular evaluates a bound variable like say {{firstName}}, it first looks at the scope associated with the given element for the firstName property. If no such property is found, it searches the parent scope and so on until the root scope is reached. In JavaScript this behaviour is known as **prototypical inheritance**, and child scopes prototypically inherit from their parents. The reverse is not true. I.e. the parent can't see it's children's bound properties.

Q4. How will you display different images based on the status being red, amber, or green?

A4. Use the **ng-switch** and **ng-switch-when** directives as shown below.

```
1  <div ng-switch on="account.status">
2   <div ng-switch-when="AMBER">
3    <img class="statusIcon" src='apps/dashboard/am
4   </div>
5   <div ng-switch-when="GREEN">
6    <img class="statusIcon" src='apps/dashboard/gr
7   </div>
```

```
 8    <div ng-switch-when="RED">
 9     <img class="statusIcon" src='apps/dashboard/re
10    </div>
11  </div>
12
```

Q5. How will you initialize a select box with options on page load?

A5. using the **ng-init** directive.

```
1  <div ng-controller="apps/dashboard/account" ng-sw
2
```

Q6. How will you show/hide buttons and enable/disable buttons conditionally?

A6. Using the **ng-show** and **ng-disabled** directives.

```
1  <div class="dataControlPanel" ng-show="accounts.r
2      <div class="dataControlButtons">
3       <button class="btn btn-primary btn-small" ng
4       <button class="btn btn-primary btn-small" ng
5      </div>
6  </div>
7
```

Q7. How will you loop through a collection and list each item?

A7. Using the **ng-repeat** directive.

```
 1    <table class="table table-bordered table-striped
 2      <thead>
 3       <tr>
 4        <th>account</th>
 5        <th>Difference</th>
 6        <th>Status</th>
 7       </tr>
 8      </thead>
 9      <tbody>
10       <tr ng-repeat="account in acounts">
11        <td width="40%">{{account.accountCode}}</td>
12        <td width="30%" style="text-align: right">{{
13        <td width="30%">
14         <div ng-switch on="account.status">
15          <div ng-switch-when="AMBER">
16           <img class="statusIcon" src='apps/dashboa
17          </div>
18          <div ng-switch-when="GREEN">
19           <img class="statusIcon" src='apps/dashboa
20          </div>
21          <div ng-switch-when="RED">
22           <img class="statusIcon" src='apps/dashboa
```

```
23          </div>
24        </div>
25
26      </td>
27    </tr>
28    </tbody>
29 </table>
30
```

Q8. How will you add options to a select box?

A8. Using the **ng-options** and **ng-model** directives.

```
1  <fieldset>
2   <dl class="control-group">
3     <dt>
4      <label for="cientId">
5        <h4>Client Id:</h4>
6      </label>
7     </dt>
8     <dd>
9      <select id="cientId" class="input-xlarge" ng-
10            ng-options="reportClient.clientId as
11            ng-click="getReportParams()" ng-chang
12    </dd>
13  </dl>
14  <dl class="control-group">
15    <dt>
16     <label for="valuationDate">
17       <h4>
18        Valuation Date <small>(dd/mm/yyyy)</small>
19       </h4>
20     </label>
21    </dt>
22    <dd>
23     <select id="valuationDate" class="input-xlarg
24            ng-model="valuationDate"
25            ng-options="reportdate for reportdat
26    </dd>
27  </dl>
28 </fieldset>
29
```

Q9. How will you display inprogress revolving image to indicate that RESTful data is bing loaded?
A9

```
1 <div ng-show="loading">
2   <img class="loading" src="portal/images/loading_
3 </div>
4
```

```
1      $scope.loadReportData = function($http) {
2    $scope.loading = true;  // start spinng the im
```

```
 3     $http(
 4       {
 5         method : 'GET',
 6         url : propertiesService.get('restPath')
 7            + '/myapp/portfolio/'
 8            + $scope.clientId
 9            + '/'
10            + dateService
11              .userToRest($scope.reportDate),
12         cacheBreaker : true
13       }).success(
14       function(data, config) {
15        $scope.reportData = data;
16        portal.log('reportData: ',
17           $scope.reportData);
18        $scope.loading = false;    // stop spinning
19       }).error(
20       function(data, status, headers, config) {
21        if(data.errorMsg != null) {
22         $scope.httpError = data.errorMsg;
23        }
24        else {
25        $scope.httpError = "Error retrieving data f
26          .getApacheErrorTitleMessage(status,
27            data, config);
28          }
29        $scope.loading = false;  // stop spinning t
30       });
31
32   };
33
```

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