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1  angular.module('ClassMaticApp.services', [])
2  .factory('RecursionHelper', ['$compile', function($compile){
3      //angular factory service that recompiles DOM contents recursively
4      return {
5          compile: function(element, link){
6              if(angular.isFunction(link)){
7                  link = { post: link };
8              }
9              var contents = element.contents().remove();
10             var compiledContents;
11             return {
12                 pre: (link && link.pre) ? link.pre : null,
13                 post: function(scope, element){
14                     if(!compiledContents){
15                         compiledContents = $compile(contents);
16                     }
17                     compiledContents(scope, function(clone){
18                         element.append(clone);
19                     });
20                     if(link && link.post){
21                         link.post.apply(null, arguments);
22                     }
23                 }
24             };
25         }
26     };
27 }]).
28 filter('humanreadable', function () {
29     //converts paths to folders into end-user "human-readable" format by putting
30     //arrows instead of forward-slashes, and the phrase "No Folder" if uploading to root
31     return function (item) {
32         if (item.substring(0, 1) == '/') {
33             item = item.substring(1);
34         }
35         if (item.length == 0) {
36             return "No Folder";
37         }
38         return item.substring(0).replace(/\\/g, " \u2192 ");
39     };
40 }]).
41 filter('folderfilter', function() {
42     //filter for the real-time search based on file and folder names
43     var folderfilter = function(obj, searchterm) {
44         if (obj) {
45             if (obj.files || obj.folders) {
46                 if (obj.files) {
47                     for (var i = 0; i < obj.files.length; i++) {
48                         if (obj.files[i].name.toLowerCase().indexOf(searchterm.
49                             toLowerCase()) > -1) {
50                             return true;
51                         }
52                     }
53                 }
54                 if (obj.folders) {
55                     for (var folder in obj.folders) {
56                         if (folder.toLowerCase().indexOf(searchterm.toLowerCase()) >
57                             -1) {

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55             return true;
56         }
57         //recursive call down the folder structure
58         if (folderfilter(obj.folders[folder], searchterm)) {
59             return true;
60         }
61     }
62 }
63     return false;
64 } else {
65     return false;
66 }
67 } else {
68     return false;
69 }
70 }
71 return function(folders, searchterm) {
72     var result = {};
73     if (folders) {
74         if (!searchterm) {
75             return folders;
76         }
77         for (var folder in folders) {
78             if (folder.toLowerCase().indexOf(searchterm.toLowerCase()) > -1) {
79                 result[folder] = folders[folder];
80                 continue;
81             }
82             if (folderfilter(folders[folder], searchterm)) {
83                 result[folder] = folders[folder];
84             }
85         }
86     }
87     return result;
88 }
89 }));
```