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LeDanielH / code-institute-stream-1-project

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Branch: master code-institute-stream-1-project / sessions / notes.js

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 LeDanielH moved files to sessions folder

bcde236 29 days ago

1 contributor

236 lines (193 sloc) 5.6 KB

Raw

Blame

History







```
1 //promisejs.org
2
3 function waitForMyVar(returnValue){
4     delete window.myVar;
5     var timer = setInterval(function(){
6         if(window.myVar !== undefined){
7             clearInterval(timer);
8             returnValue(window.myVar);
9         }
10    }, 100);
11
12    return window.myVar;
13 }
14
15 function callMeWhenYouHaveTheValue(value){
16     alert('the value is: ' + value);
17 }
18
19 waitForMyVar(callMeWhenYouHaveTheValue);
20
21 //XHR
22 //https://stream-1-project-ledanielh.c9users.io/#/gigs
23 function getData(url, returnValue){
24     var request = new XMLHttpRequest();
25
26     request.open('GET', url);
27
28     request.onreadystatechange = function(){
29         if(request.readyState === 4){
30             //end
31             returnValue(request.responseText);
32         }
33     };
34
35     //start
36     request.send(null);
37 }
38
39 function getDataSync(url){
40     var request = new XMLHttpRequest();
41
42     request.open('GET', url, false);
43
44     //start
45     request.send(null);
46
47     return request.responseText;
48 }
49
50
51 // synchronous
52 var response = getDataSync('/data/json/gigs.json');
53 alert(response);
54
55 getData('/data/json/gigs.json', function(response){
56     alert(response);
57 });
58
59
60 // PROMISES
61
62 // HARDCODED
63 function readJSON(filename){
```

```

64     return new Promise(function (fulfill, reject){
65         readFile(filename, 'utf8').done(function (res){
66             try {
67                 fulfill(JSON.parse(res));
68             } catch (ex) {
69                 reject(ex);
70             }
71         }, reject);
72     });
73 }
74
75 // <script src="https://www.promisejs.org/polyfills/promise-dont-done-7.0.4.min.js"></script>
76 // with script tag - shorter
77 function readJSON(filename){
78     return readFile(filename, 'utf8').then(function (res){
79         return JSON.parse(res);
80     });
81 }
82
83 // even shorter
84 function readJSON(filename){
85     return readFile(filename, 'utf8').then(JSON.parse);
86 }
87
88 // jQuery way
89 var jQueryPromise = $.ajax('/data.json');
90 var realPromise = Promise.resolve(jQueryPromise);
91
92 // PROPER ANGULAR WAY
93 $scope.maps = [];
94 $scope.map = null;
95 function load(maps){
96     $scope.maps = maps;
97     $scope.map = maps[0];
98 }
99 GigsDataService.maps.query().$promise.then(load);
100
101 // OTHER ANGULAR WAYS
102 // $http.get
103 // GigsHttpService.getMaps()
104 //     .then(load);
105
106 // GigsDataService.maps.query().$promise.then(function(maps){
107 //     $scope.maps = maps;
108 //     $scope.map = maps[0];
109 // });
110
111 // Promise.reject - It's best to always avoid throwing synchronous exceptions in an asynchronous method.
112 var rejectedPromise = Promise.reject(new Error('Whatever'));
113
114 // Promise.all - The all function returns a new promise which is fulfilled with an array of fulfillment values for the passed promises or r
115 function readJsonFiles(filename) {
116     // N.B. passing readJSON as a function, not calling it with `()`
117     return Promise.all(filename.map(readJSON));
118 }
119 readJsonFiles(['a.json', 'b.json']).done(function (results) {
120     // results is an array of the values stored in a.json and b.json
121 }, function (err) {
122     // If any of the files fails to be read, err is the first error
123 });
124
125 function all(promises) {
126     var accumulator = [];
127     var ready = Promise.resolve(null);
128     promises.forEach(function (promise) {
129         ready = ready.then(function () {
130             return promise;
131         }).then(function (value) {
132             accumulator.push(value);
133         });
134     });
135     return ready.then(function () { return accumulator; });
136 }
137
138 // Promise.race makes races like this even easier to run:
139 function timeout(promise, time) {
140     return Promise.race([promise, delay(time).then(function () {
141         throw new Error('Operation timed out');
142     })]);
143 }
144
145 //generators

```

```

146 function* demo() {
147     var res = yield 10;
148     assert(res === 32);
149     return 42;
150 }
151 var d = demo();
152 var resA = d.next();
153 // => {value: 10, done: false}
154 var resB = d.next(32);
155 // => {value: 42, done: true}
156 //if we call d.next() again it throws an error
157
158 // deferred pattern
159 // $q
160 // var dfd = $q.defer();
161 function asyncGreet(name) {
162     var deferred = $q.defer();
163
164     setTimeout(function() {
165         deferred.notify('About to greet ' + name + '.');
166
167         if (okToGreet(name)) {
168             deferred.resolve('Hello, ' + name + '!');
169         } else {
170             deferred.reject('Greeting ' + name + ' is not allowed.');
```

```
227         myFirstDeferred.reject
228     );
229
230     var myFirstPromise = myFirstDeferred.promise;
231
232     myFirstPromise.then(function(data) {
233         console.log('My first promise succeeded', data);
234     }, function(error) {
235         console.log('My first promise failed', error);
236     });
```

