

```

1  import { Component, Input, OnInit } from '@angular/core';
2  import { Project } from '../Models/project.model';
3  import { Folder } from '../Models/folder.model';
4  import { ProjectsService } from '../projects.service';
5
6  @Component({
7      selector: 'app-projects-recursion',
8      templateUrl: './projects-recursion.component.html',
9      styleUrls: ['./projects-recursion.component.scss']
10 })
11 export class ProjectsRecursionComponent implements OnInit {
12     @Input() project: Project;
13     @Input() recursionIndex: number;
14     @Input() folder: Folder;
15     folderSelection: Folder[];
16     itemRecursionLength: number;
17     public isCollapsed = [];
18     public fileIterations: number[];
19
20     constructor(private projectService: ProjectsService) { }
21
22     // path length brought on par with the recursion standard (2 levels down the tree)
23     // create one isCollapsed for each horizontalFolder
24     ngOnInit() {
25         this.itemRecursionLength = this.folder.pathLength - 3;
26         this.fileIterations = Array.from(Array(this.folder.files.length).keys());
27         this.folderSelection = this._folderSelector();
28         if (this.recursionIndex < this.itemRecursionLength) {
29             for (const folder of this.project.folders[this.recursionIndex]) {
30                 this.isCollapsed.push(true);
31             }
32             if (this.recursionIndex === 0) {
33                 this.isCollapsed[0] = false;
34             }
35         }
36     }
37
38     // select folders by checking that the part ahead of the index is equal to the
39     // current folder path
40     private _folderSelector(): Folder[] {
41         const folderSelection: Folder[] = [];
42
43         if (this.project.folders[this.recursionIndex]) {
44             for (const loopFolder of this.project.folders[this.recursionIndex]) {
45                 if (this.projectService.isPathwayEqualUpToIndex(
46                     this.projectService.getFilelessPath(loopFolder.folderPath, true),
47                     this.projectService.getFilelessPath(this.folder.folderPath, true),
48                     this.recursionIndex)) {
49                     folderSelection.push(loopFolder);
50                 }
51             }
52         }
53         return folderSelection;
54     }
55
56     // return file extension for a given path
57     getExtension(path: string) {
58         return path.substring(path.length - 3);
59     }
60
61     // return Font Awesome icon classes based on the type of the file
62     getFaIcon (path: string) {
63         const extension = this.getExtension(path);
64
65         if (extension === 'jpg' || extension === 'png') {
66             return 'fa fa-file-image-o charcoal';
67         } else if (extension === 'pdf') {
68             return 'fa fa-file-pdf-o red';
69         }
70     }
71 }
72

```