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1  import { Component, OnDestroy, OnInit } from '@angular/core';
2  import { Category } from '../../shared/models/category.model';
3  import { Subscription } from 'rxjs/Subscription';
4  import { WindowSizeService } from '../../shared/services/window-size.service';
5  import { ChartSelectEvent } from 'ng2-google-charts';
6  import { TimelineService } from '../../timeline.service';
7  import { CvDataHandlerService } from '../../shared/services/cv-data-handler.service';
8  import { CoreService } from '../../shared/services/core.service';
9
10 @Component({
11   selector: 'app-ng2-timeline',
12   templateUrl: './ng2-timeline.component.html',
13   styleUrls: ['./ng2-timeline.component.scss']
14 })
15 export class Ng2TimelineComponent implements OnInit, OnDestroy {
16   private _categories: Category[] = null;
17   private _residences: any = null;
18   catReadySubscription: Subscription;
19   resReadySubscription: Subscription;
20   minDateChangedSubscription: Subscription;
21   maxDateChangedSubscription: Subscription;
22   sizeChangedSubscription: Subscription;
23   private _currentSize = '';
24   public timelineData: any;
25   public displayError = false;
26
27   constructor(
28     public windowSize: WindowSizeService,
29     private _timelineService: TimelineService,
30     private _cvDataHandler: CvDataHandlerService,
31     public coreService: CoreService
32   ) { }
33
34   // subscribes for asynchronous data collection from
35   //   cvData/residenceData/LangChange, min/max date change, and window Size Change
36   // data gets retrieved from the server only once in the whole project
37   ngOnInit() {
38     this._currentSize = this.windowSize.getCurrentSize();
39
40     this.catReadySubscription = this._cvDataHandler.getCategoriesAsync.subscribe(
41       (categories: Category[]) => {
42         this._categories = categories;
43         if (this._residences) {
44           this._loadTimelineData();
45         }
46       });
47     if (this._cvDataHandler.isResidences() && this._cvDataHandler.isCategories()) {
48       this._categories = this._cvDataHandler.getCategories();
49     }
50
51     this.resReadySubscription = this._cvDataHandler.getResidencesAsync.subscribe(
52       (residences: any) => {
53         this._residences = residences;
54         if (this._categories) {
55           this._loadTimelineData();
56         }
57       });
58     if (this._cvDataHandler.isResidences() && this._cvDataHandler.isCategories()) {
59       this._residences = this._cvDataHandler.getResidences();
60       this._loadTimelineData();
61     }
62
63     this.minDateChangedSubscription = this._timelineService.minDateChanged.subscribe(
64       () => {
65         this._loadTimelineData();
66       }
67     );
68
69     this.maxDateChangedSubscription = this._timelineService.maxDateChanged.subscribe(
70       () => {
71         this._loadTimelineData();
72       }
73     );

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73
74     this.sizeChangedSubscription = this.windowSize.sizeChanged.subscribe(
75         (currentSize: string) => {
76             if (this._currentSize !== currentSize || this._currentSize === 'sm') {
77                 this._currentSize = currentSize;
78                 this._loadTimelineData();
79             }
80         }
81     );
82 }
83
84 // create timeline table options and final table. dataTable is created within the
85 // timeline service
86 private _loadTimelineData() {
87     this.displayError = false;
88     this.timelineData = {
89         chartType: 'Timeline',
90         dataTable: this._timelineService.loadTimelineDataTable(this._categories,
91             this._residences),
92         options: {
93             colors: ['#ff7200', '#3d3d3d', '#ffba44', '#ffcd77', '#ff6100'],
94             width: (this._currentSize === 'xs') ? 750 : -1,
95             height: 350,
96             tooltip: { trigger: 'none' },
97             timeline: {
98                 rowLabelStyle: {fontName: 'Helvetica', fontSize: 16, color: '#000000'},
99                 barLabelStyle: {fontName: 'Arial', fontSize: 12}
100             }
101         }
102     };
103 }
104
105 // send category and occurrence index for a timeline element that has been
106 // clicked, to the timeline service
107 chartSelect(event: ChartSelectEvent) {
108     const categoryId =
109         this._timelineService.getDataTabToCateg()[event.row].categoryId;
110     const occurrenceId =
111         this._timelineService.getDataTabToCateg()[event.row].occurrenceId;
112
113     if (categoryId !== 'residence') {
114         this._timelineService.setClickedItemOccurrence(
115             this._cvDataHandler.getCategoryByName(categoryId).categoryName,
116             this._cvDataHandler.getOccurrenceByIds(categoryId, occurrenceId)
117         );
118     } else {
119         this._timelineService.setClickedItemResidence(
120             this._cvDataHandler.getResidenceById(occurrenceId)
121         );
122     }
123 }
124
125 // notify that timeline table finished loading
126 ready() {
127     this._timelineService.chartReady.next(true);
128 }
129
130 // execute in case of table display error
131 error() {
132     this.displayError = true;
133     return (this.coreService.getLang() === 'eng') ?
134         'An error was encountered while drawing the table' :
135         'E\' stato incontrato un errore durante il rendering della tabella';
136 }
137
138 // public method returning a private variable
139 getCurrentSize() {
140     return this._currentSize;
141 }
142
143 // free memory from subscriptions on component destruction
144 ngOnDestroy() {
145     this.catReadySubscription.unsubscribe();
146 }

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140         this.resReadySubscription.unsubscribe();
141         this.sizeChangedSubscription.unsubscribe();
142     }
143 }
144
```