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1  import { Injectable } from '@angular/core';
2  import { Occurrence } from '../models/occurrence.model';
3  import { Certificate } from '../models/certificate.model';
4  import { Image } from '../models/image.model';
5  import 'rxjs/add/operator/map';
6  import { Category } from '../models/category.model';
7  import { ImageSet } from '../shared-modal/image-set.model';
8  import { Residence } from '../../timeline/residence.model';
9  import { DataRetrieverService } from './data-retriever.service';
10 import { HttpResponse } from '@angular/common/http';
11 import { CoreService } from './core.service';
12 import { Subject } from 'rxjs/Subject';
13
14 @Injectable()
15
16 export class CvDataHandlerService {
17     private _fullCvData: any[];
18     private _categories: Category[];
19     private _education: Category;
20     private _workExperience: Category;
21     private _volunteering: Category;
22     private _hobbies: Category;
23     private _residences: Residence[];
24     getCategoriesAsync = new Subject<Category[]>();
25     getResidencesAsync = new Subject<Residence[]>();
26
27     // subscribe to language change to load cv info in a different language
28     // load data from the server only once
29     constructor(
30         private _dataRetrieverService: DataRetrieverService,
31         private _coreService: CoreService
32     ) {
33         this._categories = null;
34         this._residences = null;
35
36         this._loadData();
37         this._coreService.langUpdated.subscribe(
38             (lang: string) => {
39                 this._categories = this._setCategories(lang);
40                 this._residences = this._setResidences(lang);
41                 this.getCategoriesAsync.next(this._categories);
42                 this.getResidencesAsync.next(this._residences);
43             }
44         );
45     }
46
47     // get cv data from the server
48     private _loadData() {
49         this._dataRetrieverService.importCvData().subscribe(
50             (categories) => {
51                 this._fullCvData = categories;
52                 this._categories = this._setCategories(this._coreService.getLang());
53                 this._residences = this._setResidences(this._coreService.getLang());
54                 this.getCategoriesAsync.next(this._categories);
55                 this.getResidencesAsync.next(this._residences);
56             },
57             (err: HttpResponse) => {
58                 if (err.error instanceof Error) {
59                     console.log('Client-side error occurred.');
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73  isResidences(): boolean {
74      return this._residences !== null;
75  }
76
77  // populate categories from complete data (all languages included)
78  private _setCategories(lang: string): Category[] {
79      const categories = [];
80
81      this._setEducation(lang);
82      this._setWorkExperience(lang);
83      this._setVolunteering(lang);
84      this._setHobbies(lang);
85
86      categories.push(this._education);
87      categories.push(this._workExperience);
88      categories.push(this._volunteering);
89      categories.push(this._hobbies);
90
91      return categories;
92  }
93
94  getCategories(): Category[] {
95      return this._categories;
96  }
97
98  getCategoryByName (categoryName): Category {
99      for (const categoryRef of this._categories) {
100          if (categoryRef.categoryName === categoryName) {
101              return categoryRef;
102          }
103      }
104      return null;
105  }
106
107  getOccurrenceByIds(categoryName, occurrenceId): Occurrence {
108      for (const category of this._categories) {
109          if (category.categoryName === categoryName) {
110              for (const occurrenceRef of category.occurrences) {
111                  if (occurrenceRef.id === occurrenceId) {
112                      return occurrenceRef;
113                  }
114              }
115              break;
116          }
117      }
118      return null;
119  }
120
121  getResidenceById (residenceId): Residence {
122      for (const residenceRef of this._residences) {
123          if (residenceRef.id === residenceId) {
124              return residenceRef;
125          }
126      }
127      return null;
128  }
129
130  getResidences(): Residence[] {
131      return this._residences;
132  }
133
134  // populate each single category ----
135  private _setEducation(lang) {
136      this._education = new Category(
137          'education',
138          lang === 'eng' ? 'education and training' : 'istruzione e formazione',
139          this._setOccurrences('education', lang)
140      );
141  }
142
143  private _setWorkExperience(lang) {
144      this._workExperience = new Category(
145          'workExperience',

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146     lang === 'eng' ? 'work experience' : 'esperienza lavorativa',
147     this._setOccurrences('workExperience', lang)
148 );
149 }
150
151 private _setVolunteering(lang) {
152     this._volunteering = new Category(
153         'volunteering',
154         lang === 'eng' ? 'volunteering' : 'volontariato',
155         this._setOccurrences('volunteering', lang)
156     );
157 }
158
159 private _setHobbies(lang) {
160     this._hobbies = new Category(
161         'hobbies',
162         lang === 'eng' ? 'hobbies' : 'hobby',
163         this._setOccurrences('hobbies', lang)
164     );
165 }
166
167 // -----
168
169 // populate cv occurrences of a category
170 private _setOccurrences(categoryName: string, lang: string) {
171     const occurrences: Occurrence[] = [];
172     let i = 0;
173
174     for (const occurrence of this._fullCvData[categoryName]) {
175         const localOccurrence: Occurrence = new Occurrence(
176             occurrence.id,
177             this._strToDate(occurrence.startDate),
178             this._strToDate(occurrence.endDate),
179             occurrence.attachedFile,
180             lang === 'eng' ? occurrence.title : occurrence.titoloIta,
181             occurrence.score,
182             occurrence.company,
183             lang === 'eng' ? occurrence.location : occurrence.luogo,
184             lang === 'eng' ? occurrence.description : occurrence.descrizione,
185             occurrence.addToCv,
186             this._setCertificates(categoryName, i, lang),
187             this._setImages(categoryName, i)
188         );
189         i++;
190         occurrences.push(localOccurrence);
191     }
192
193     return occurrences;
194 }
195
196 // populate certificates of an occurrence
197 private _setCertificates(categoryName: string, occurrenceId: number, lang:
    string): Certificate[] {
198     const certificates: Certificate[] = [];
199
200     if (this._fullCvData[categoryName][occurrenceId].certificates !== null) {
201         for (const forCertificate of
            this._fullCvData[categoryName][occurrenceId].certificates) {
202             const certificate = new Certificate(
203                 forCertificate.id,
204                 forCertificate.attachedFile,
205                 lang === 'eng' ? forCertificate['enDesc'] : forCertificate['itDesc'],
206                 forCertificate.score
207             );
208             certificates.push(certificate);
209         }
210     }
211     return certificates;
212 }
213
214 // populate images for an occurrence
215 private _setImages(categoryName: string, occurrenceId: number): Image[] {
216     const images: Image[] = [];

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217     if (this._fullCvData[categoryName][occurrenceId].images !== null) {
218         for (const image of this._fullCvData[categoryName][occurrenceId].images) {
219             images.push(image);
220         }
221     }
222 }
223
224 return images;
225 }
226
227 // populate residences (places I resided in) from complete data (all languages
    included)
228 private _setResidences(lang: string): Residence[] {
229     let residences;
230
231     residences = this._innerSetResidences(lang);
232     return residences;
233 }
234
235 // method shared setResidences and _reloadResidences to populate the residences
    array
236 private _innerSetResidences(lang: string) {
237     let residence: Residence;
238
239     const residences = [];
240     for (const residenceRef of this._fullCvData['residences']) {
241         residence = new Residence(
242             residenceRef['id'],
243             lang === 'eng' ? residenceRef['nation'] : residenceRef['nazione'],
244             this._strToDate(residenceRef['startDate']),
245             this._strToDate(residenceRef['endDate'])
246         );
247         residences.push(residence);
248     }
249     return residences;
250 }
251
252 // transforms a given string date into Date type (year-month-day format)
253 private _strToDate(strDate: string): Date {
254     const splitStringArray = strDate.split('-');
255     return new Date(+splitStringArray[0], +splitStringArray[1] - 1,
        +splitStringArray[2] + 1);
256 }
257
258 // returns images and occurrence description for a given Category/Occurrence pair
259 searchImageSet(categoryId: string, occurrenceId: string): ImageSet {
260     const imageSet = new ImageSet('', []);
261
262     for (const category of this._categories) {
263         if (category.categoryName === categoryId) {
264             for (const occurrence of category.occurrences) {
265                 if (occurrence.id === occurrenceId) {
266                     imageSet.desc = occurrence.title;
267                     imageSet.images = occurrence.images;
268                     break;
269                 }
270             }
271             break;
272         }
273     }
274     return imageSet;
275 }
276
277 }
278

```