

InputSystemTxt.java

```

1 package inputManagePackage;
2
3 import java.io.File;
19
20
21 public class InputSystemTxt {
22
23     static Scanner inputStream = null;
24     static Scanner checkStream = null;
25     static int checkIfSection = 0;
26     static int notSkipLine = 0;
27
28
29     protected static ArrayList<Section> inputCvTemplateSectionObj = new
    ArrayList<Section>();
30
31
32
33     public static void addCvDataFromFile(int index, String filePath) throws
    ParseException{
34
35
36         try{
37             inputStream = new Scanner(new FileInputStream(filePath));
38             checkStream = new Scanner(new FileInputStream(filePath));
39         } catch (FileNotFoundException e) {
40             System.out.println("Problem opening file.");
41             System.exit(0);
42         }
43
44
45         int i=0;
46         while(checkStream.hasNextLine() && checkStream.nextLine().length()>0){
47             i++;
48             checkStream.nextLine();
49         }
50
51         if(i<4){
52             JOptionPane.showMessageDialog(null, "Invalid input file. Reached eof while
    on General Info.");
53             return;
54         }
55
56
57         String applicantName = inputStream.nextLine().substring(6);
58         String applicantAddress = inputStream.nextLine().substring(9);
59         String applicantHomeTelephone = inputStream.nextLine().substring(18);
60         String applicantWorkTelephone = inputStream.nextLine().substring(18);
61         String applicantEmail = inputStream.nextLine().substring(7);
62
63         CVTemplate cvtemplate = new CVTemplate(applicantName, applicantAddress,
    applicantHomeTelephone,
64             applicantWorkTelephone, applicantEmail);
65
66         int sectionCounter = 0;
67         while(inputStream.hasNextLine()){
68
69             if(notSkipLine==0){
70                 inputStream.nextLine();

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71
72     })
73     notSkipLine=0;
74     inputCvAddSection(sectionCounter, cvtemplate);
75
76
77 })
78
79 inputStream.close();
80 checkStream.close();
81
82 templateTypeIdentifier(cvtemplate);
83 Database.addCVtemplateToList(cvtemplate);
84
85
86
87 }
88
89 private static void inputCvAddSection(int sectionCounter, CVTemplate cvtemplate)
throws ParseException{
90     String checkNextLine=null;
91
92     if (inputStream.hasNextLine()){
93         checkNextLine = inputStream.nextLine();
94     }else{
95         checkNextLine = "exit";
96     }
97
98     if (sectionRepetitionCheck(checkNextLine, cvtemplate)) return;
99
100    if(checkNextLine.equals("Professional Profile:")){
101
102        cvtemplate.addSectionObj(sectionCounter , new Section("Professional
Profile:"));
103        cvtemplate.getSectionObj(sectionCounter).addParagraph(inputStream.nextLine(
).substring(1));
104
105
106    }else if(checkNextLine.equals("Additional Information:")){
107
108
109        cvtemplate.addSectionObj(sectionCounter , new Section("Additional
Information:"));
110        cvtemplate.getSectionObj(sectionCounter).addParagraph(inputStream.nextLine(
).substring(1));
111
112
113    }else if(checkNextLine.equals("Interests:")){
114
115        cvtemplate.addSectionObj(sectionCounter , new Section("Interests:"));
116        cvtemplate.getSectionObj(sectionCounter).addParagraph(inputStream.nextLine(
).substring(1));
117
118
119    }else if(checkNextLine.equals("Education and Training:")){
120
121        cvtemplate.addSectionObj(sectionCounter , new Section("Education and
Training:"));
122        inputCvAddBulletListItem(sectionCounter , cvtemplate);
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123
124     }else if(checkNextLine.equals("Further Courses:")){
125
126         cvtemplate.addSectionObj(sectionCounter , new Section("Further
Courses:"));
127         inputCvAddBulletListItem(sectionCounter , cvtemplate);
128
129     }else if(checkNextLine.equals("Career Summary:")){
130
131         cvtemplate.addSectionObj(sectionCounter , new Section("Career Summary:"));
132         inputCvAddBulletListItem(sectionCounter , cvtemplate);
133
134     }else if(checkNextLine.equals("Skills and Experience:")){
135
136         cvtemplate.addSectionObj(sectionCounter , new Section("Skills and
Experience:"));
137         inputCvAddBulletList(sectionCounter , cvtemplate);
138
139     }else if(checkNextLine.equals("Core Strengths:")){
140
141         cvtemplate.addSectionObj(sectionCounter , new Section("Core Strengths:"));
142         cvtemplate.getSectionObj(sectionCounter).addParagraph(inputStream.nextLine(
));
143
144     }else if(checkNextLine.equals("Professional Experience:")){
145
146         cvtemplate.addSectionObj(sectionCounter , new Section("Professional
Experience:"));
147         inputCvAddBulletListItemAndItemList(sectionCounter , cvtemplate);
148
149     }else{
150         if (!checkNextLine.equals("exit")) System.out.println("Invalid Input File
"+checkNextLine);
151     }
152     }
153     sectionCounter++;
154 }
155
156 private static void inputCvAddBulletList(int sectionCounter, CVTemplate
cvtemplate) throws ParseException{
157     int listCounter = 0;
158     String checkNextLine=inputStream.nextLine();
159
160     while (checkNextLine.substring(0, 2).equals(" ")) {
161
162         cvtemplate.getSectionObj(sectionCounter).addBulletList(listCounter , new
BulletList(checkNextLine.substring(2)));
163         checkNextLine=inputStream.nextLine();
164
165         while (checkNextLine.substring(0, 4).equals("    ")){
166             cvtemplate.getSectionObj(sectionCounter).getBulletList(listCounter).ad
dBulletListItem(new BulletListItem(checkNextLine.substring(4)));
167             checkNextLine=inputStream.nextLine();
168
169             if(checkNextLine.isEmpty()) break;
170
171         }
172     }
173

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174         if(checkNextLine.isEmpty()) break;
175         listCounter++;
176     }
177 }
178     notSkipLine=1;
179 }
180
181     private static void inputCvAddBulletListItem(int sectionCounter, CVTemplate
cvtemplate) throws ParseException{
182         String checkNextLine=inputStream.nextLine();
183         while (checkNextLine.substring(0, 2).equals("  ")){
184
185             cvtemplate.getSectionObj(sectionCounter).addBulletListItem(new
BulletListItem(getDate(checkNextLine),getWithoutDate(checkNextLine.substring(2))));
186             checkNextLine=inputStream.nextLine();
187
188             if(checkNextLine.isEmpty()) break;
189         }
190         notSkipLine=1;
191     }
192
193     private static void inputCvAddBulletListItemAndItemList(int sectionCounter,
CVTemplate cvtemplate) throws ParseException{
194
195         int listCounter = 0;
196         String checkNextLine=inputStream.nextLine();
197
198         while (checkNextLine.substring(0, 2).equals("  ")){
199
200             cvtemplate.getSectionObj(sectionCounter).addBulletListItem(new
BulletListItem(getDate(checkNextLine),getWithoutDate(checkNextLine.substring(2))));
201             cvtemplate.getSectionObj(sectionCounter).addBulletList(listCounter,
new BulletList(checkNextLine));
202             int listItemCounter = 0;
203             checkNextLine=inputStream.nextLine();
204
205             if(checkNextLine.substring(0, 4).equals("    ")){
206
207                 cvtemplate.getSectionObj(sectionCounter).getBulletList(listCounter)
.addBulletListItem(new BulletListItem(checkNextLine.substring(4)));
208                 checkNextLine=inputStream.nextLine();
209                 listItemCounter++;
210
211                 if(checkNextLine.isEmpty()) break;
212             }else{
213                 System.out.println("Wrong Input Professional Experience");
214                 break;
215             }
216
217             if(checkNextLine.substring(0, 4).equals("    ")){
218
219                 cvtemplate.getSectionObj(sectionCounter).getBulletList(listCounter)
.addBulletListItem(new BulletListItem(checkNextLine.substring(4)));
220                 checkNextLine=inputStream.nextLine();
221                 listItemCounter++;
222
223                 if(checkNextLine.isEmpty()) break;
224             }else{
225

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226         System.out.println("Wrong Input Professional Experience");
227         break;
228     }
229
230     while (checkNextLine.substring(0, 6).equals("    ")) {
231
232         cvtemplate.getSectionObj(sectionCounter).getBulletList(listCounter)
.addBulletListItem(new BulletListItem(checkNextLine.substring(6)));
233         checkNextLine=inputStream.nextLine();
234         listItemCounter++;
235         if(checkNextLine.isEmpty()) break;
236
237     }
238
239
240
241     if(checkNextLine.isEmpty()) break;
242     listCounter++;
243 }
244 notSkipLine=1;
245 }
246
247 private static boolean sectionRepetitionCheck(String checkNextLine, CVTemplate
cvtemplate) {
248     for(int i=0; i<cvtemplate.getNumberOfSectionObj(); i++){
249         if( checkNextLine.equals(cvtemplate.getSectionObjTitle(i))){
250             JOptionPane.showMessageDialog(null, "Repeated section of " +
checkNextLine + ". Skipping.");
251             if(checkNextLine.equals("Professional Profile:") ||
checkNextLine.equals("Additional Information:") ||
252                 checkNextLine.equals("Interests:")){
253                 inputStream.nextLine();
254
255                 return true;
256             }
257         }
258     }
259     return false;
260 }
261
262 }
263
264 private static Date getDate(String input) throws ParseException{
265     Date date;
266
267     SimpleDateFormat sdf = new SimpleDateFormat("dd-MM-yyyy");
268     date = sdf.parse(input.substring(input.length() - 10));
269
270     return date;
271 }
272
273
274 private static String getWithoutDate(String input){
275
276     return input.substring(0, input.length() - 12);
277 }
278
279 public static void templateTypeIdentifier(CVTemplate cvtemplate){
280     int checkForFunctional=0;

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281     int checkForChronological=0;
282     int checkForCombined=0;
283
284     for (int i=0; i<cvtemplate.getNumberOfSectionObj(); i++){
285
286         if(cvtemplate.getSectionObjTitle(i).equals("Skills and Experience:")){
287             checkForFunctional++;
288             checkForCombined++;
289         }else if(cvtemplate.getSectionObjTitle(i).equals("Career Summary:")){
290             checkForFunctional++;
291
292         }else if(cvtemplate.getSectionObjTitle(i).equals("Professional
Experience:")){
293             checkForChronological++;
294             checkForCombined++;
295         }else if(cvtemplate.getSectionObjTitle(i).equals("Core Strengths:")){
296             checkForChronological++;
297
298         }
299     }
300 }
301
302     if(cvtemplate.getNumberOfSectionObj()<4) JOptionPane.showMessageDialog(null,
"Less than 4 sections.");
303
304     if(checkForChronological!=2 && checkForCombined!=2 && checkForFunctional==2){
305         JOptionPane.showMessageDialog(null, "Functional CV identified.");
306     }else if(checkForChronological==2 && checkForCombined!=2 &&
checkForFunctional!=2){
307         JOptionPane.showMessageDialog(null, "Chronological CV identified.");
308     }else if(checkForChronological!=2 && checkForCombined==2 &&
checkForFunctional!=2){
309         JOptionPane.showMessageDialog(null, "Combined CV identified.");
310     }else{
311         JOptionPane.showMessageDialog(null, "CV type not identified.");
312     }
313 }
314
315
316     public static int templateTypeSilentIdentifier(CVTemplate cvtemplate){
317         int checkForFunctional=0;
318         int checkForChronological=0;
319         int checkForCombined=0;
320
321         for (int i=0; i<cvtemplate.getNumberOfSectionObj(); i++){
322
323             if(cvtemplate.getSectionObjTitle(i).equals("Skills and Experience:")){
324                 checkForFunctional++;
325                 checkForCombined++;
326             }else if(cvtemplate.getSectionObjTitle(i).equals("Career Summary:")){
327                 checkForFunctional++;
328
329             }else if(cvtemplate.getSectionObjTitle(i).equals("Professional
Experience:")){
330                 checkForChronological++;
331                 checkForCombined++;
332             }else if(cvtemplate.getSectionObjTitle(i).equals("Core Strengths:")){
333                 checkForChronological++;
334

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```

335         }
336
337     }
338
339     if(checkForChronological!=2 && checkForCombined!=2 && checkForFunctional==2){
340         return 0;
341     }else if(checkForChronological==2 && checkForCombined!=2 &&
checkForFunctional!=2){
342         return 1;
343     }else if(checkForChronological!=2 && checkForCombined==2 &&
checkForFunctional!=2){
344         return 2;
345     }else{
346         return -1;
347     }
348
349
350 }
351
352 public static int checkIfCVFile(String filePath){
353
354     Scanner fileStream = null;
355     try {
356         fileStream = new Scanner(new FileInputStream(filePath));
357     } catch (FileNotFoundException e2) {
358         // TODO Auto-generated catch block
359         e2.printStackTrace();
360     }
361     int i=0;
362     while(fileStream.hasNextLine() && fileStream.nextLine().length()>0){
363         i++;
364         fileStream.nextLine();
365     }
366
367     if(i<4){
368         JOptionPane.showMessageDialog(null, "Invalid input file. Not a CV file.");
369         return 1;
370     }
371     return 0;
372 }
373
374 }
375

```