

InputSystemLatex.java

```

1 package inputManagePackage;
2
3 import java.io.File;
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21 public class InputSystemLatex {
22
23     static Scanner inputStream = null;
24     static Scanner checkStream = null;
25     static int checkIfSection = 0;
26     static int notSkipLine = 0;
27
28     protected static ArrayList<Section> inputCvTemplateSectionObj = new
        ArrayList<Section>();
29
30
31
32     public static void addCvDataFromFile(int index, String filePath) throws
        ParseException{
33
34
35         try{
36             inputStream = new Scanner(new FileInputStream(filePath));
37             checkStream = new Scanner(new FileInputStream(filePath));
38         } catch (FileNotFoundException e) {
39             System.out.println("Problem opening file.");
40             System.exit(0);
41         }
42
43
44         int i=0;
45         while (checkStream.hasNextLine()) {
46             i++;
47             checkStream.nextLine();
48         }
49
50         if (i < 11) {
51             JOptionPane.showMessageDialog(null, "Invalid input file. Reached eof while
                on General Info.");
52             return;
53         }
54
55         for (i=0; i<5; i++) {
56             inputStream.nextLine();
57         }
58
59         String tempString = inputStream.nextLine();
60
61         String applicantName = tempString.substring(6, tempString.length()-2);
62         tempString = inputStream.nextLine();
63         String applicantAddress = tempString.substring(9, tempString.length()-2);
64         tempString = inputStream.nextLine();
65         String applicantHomeTelephone = tempString.substring(18,
            tempString.length()-2);
66         tempString = inputStream.nextLine();
67         String applicantWorkTelephone = tempString.substring(18,
            tempString.length()-2);
68         tempString = inputStream.nextLine();
69         String applicantEmail = tempString.substring(7, tempString.length()-2);

```

enumerate steps
on the board

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70
71
72     CVTemplate cvtemplate = new CVTemplate(applicantName, applicantAddress,
applicantHomeTelephone,
73         applicantWorkTelephone, applicantEmail);
74
75     int sectionCounter = 0;
76     String checkEoF=null;
77     while(inputStream.hasNextLine()){
78
79         if(notSkipLine==0){
80             checkEoF = inputStream.nextLine();
81         }
82         notSkipLine=0;
83         if (checkEoF.equals("\\end{document}")) break;
84
85         inputCvAddSection(sectionCounter, cvtemplate);
86
87
88     }
89
90     inputStream.close();
91     checkStream.close();
92
93     InputSystemTxt.templateTypeIdentifier(cvtemplate);
94     Database.addCVtemplateToList(cvtemplate);
95
96
97
98 }
99
100 private static void inputCvAddSection(int sectionCounter, CVTemplate cvtemplate)
throws ParseException{
101     String checkNextLine=null;
102     String tempStringSection;
103
104     if (inputStream.hasNextLine()){
105         checkNextLine = inputStream.nextLine();
106     }else{
107         checkNextLine = "exit";
108     }
109
110     if (sectionRepetitionCheck(checkNextLine, cvtemplate)) return;
111     checkNextLine=checkNextLine.substring(9,checkNextLine.length()-1);
112
113     if(checkNextLine.equals("Professional Profile:")){
114
115         cvtemplate.addSectionObj(sectionCounter , new Section("Professional
Profile:"));
116         tempStringSection=inputStream.nextLine();
117         cvtemplate.getSectionObj(sectionCounter).addParagraph(tempStringSection.su
bstring(0,tempStringSection.length()-2));
118
119
120     }else if(checkNextLine.equals("Additional Information:")){
121
122
123         cvtemplate.addSectionObj(sectionCounter , new Section("Additional
Information:"));

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124         tempStringSection=InputStream.nextLine();
125         cvtemplate.getSectionObj(sectionCounter).addParagraph(tempStringSection.substring(0,tempStringSection.length()-2));
126
127
128         }else if(checkNextLine.equals("Interests:")){
129
130             cvtemplate.addSectionObj(sectionCounter , new Section("Interests:"));
131             tempStringSection=InputStream.nextLine();
132             cvtemplate.getSectionObj(sectionCounter).addParagraph(tempStringSection.substring(0,tempStringSection.length()-2));
133
134
135         }else if(checkNextLine.equals("Education and Training:")){
136
137             cvtemplate.addSectionObj(sectionCounter , new Section("Education and
138 Training:"));
139             inputCvAddBulletListItem(sectionCounter , cvtemplate);
140
141         }else if(checkNextLine.equals("Further Courses:")){
142
143             cvtemplate.addSectionObj(sectionCounter , new Section("Further
144 Courses:"));
145             inputCvAddBulletListItem(sectionCounter , cvtemplate);
146
147         }else if(checkNextLine.equals("Career Summary:")){
148
149             cvtemplate.addSectionObj(sectionCounter , new Section("Career Summary:"));
150             inputCvAddBulletListItem(sectionCounter , cvtemplate);
151
152         }else if(checkNextLine.equals("Skills and Experience:")){
153
154             cvtemplate.addSectionObj(sectionCounter , new Section("Skills and
155 Experience:"));
156             inputCvAddBulletList(sectionCounter , cvtemplate);
157
158         }else if(checkNextLine.equals("Core Strengths:")){
159
160             cvtemplate.addSectionObj(sectionCounter , new Section("Core Strengths:"));
161             cvtemplate.getSectionObj(sectionCounter).addParagraph(InputStream.nextLine()
162 ));
163
164         }else if(checkNextLine.equals("Professional Experience:")){
165
166             cvtemplate.addSectionObj(sectionCounter , new Section("Professional
167 Experience:"));
168             inputCvAddBulletListItemAndItemList(sectionCounter , cvtemplate);
169
170         }else{
171             if(!checkNextLine.equals("ment")) System.out.println("Invalid Input File
172 "+checkNextLine);
173
174         }
175         sectionCounter++;
176     }
177
178     private static void inputCvAddBulletList(int sectionCounter, CVTemplate
179 cvtemplate) throws ParseException{
180         int listCounter = 0;

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174         String checkNextLine=inputStream.nextLine();
175
176         if(checkNextLine.length()<12 || !checkNextLine.substring(0, 11).equals("\
177         \subsection")){
178             JOptionPane.showMessageDialog(null, "Invalid input file. Error on
bulletlist.");
179             return;
180         }
181         while (checkNextLine.substring(0, 11).equals("\subsection")){
182
183             cvtemplate.getSectionObj(sectionCounter).addBulletList(listCounter , new
BulletList(checkNextLine.substring(12, checkNextLine.length()-1)));
184             inputStream.nextLine(); //begin itemize
185             checkNextLine=inputStream.nextLine();
186
187             while (checkNextLine.substring(0, 5).equals("\item")){
188                 cvtemplate.getSectionObj(sectionCounter).getBulletList(listCounter).ad
dBulletListItem(new BulletListItem(checkNextLine.substring(6)));
189                 checkNextLine=inputStream.nextLine();
190
191             }
192
193             listCounter++;
194             if(!checkNextLine.equals("\end{itemize}")){
195                 JOptionPane.showMessageDialog(null, "Invalid input file. Error on
bulletlist. No 'enditemize'.");
196                 break;
197             }
198             checkNextLine=inputStream.nextLine(); //end itemize
199             if(checkNextLine.length()<12) break;
200             notSkipLine=1;
201         }
202     }
203 }
204
205 private static void inputCvAddBulletListItem(int sectionCounter, CVTemplate
cvtemplate) throws ParseException{
206     String checkNextLine=inputStream.nextLine();
207
208     if(checkNextLine.equals("\begin{itemize}"))
209         checkNextLine=inputStream.nextLine();
210     else{
211         JOptionPane.showMessageDialog(null, "Invalid input file. Error on
bulletlistitem.");
212         return;
213     }
214     //checkNextLine=inputStream.nextLine();
215     while (checkNextLine.substring(0, 5).equals("\item")){
216
217         cvtemplate.getSectionObj(sectionCounter).addBulletListItem(new
BulletListItem(getDate(checkNextLine),getWithoutDate(checkNextLine.substring(6))));
218         checkNextLine=inputStream.nextLine();
219
220         if(checkNextLine.length()<5) break;
221     }
222
223     if(!checkNextLine.equals("\end{itemize}")){

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```

224         JOptionPane.showMessageDialog(null, "Invalid input file. Error on
bulletlistitem.");
225         return;
226     }
227
228 }
229
230 private static void inputCvAddBulletListItemAndItemList(int sectionCounter,
CVTemplate cvtemplate) throws ParseException{
231
232     int listCounter = 0;
233     String checkNextLine=inputStream.nextLine();
234
235     if(checkNextLine.length()<12 || !checkNextLine.substring(0, 11).equals("\
\subsection")){
236         JOptionPane.showMessageDialog(null, "Invalid input file. Error on
bulletlist.");
237         return;
238     }
239
240     while (checkNextLine.substring(0, 11).equals("\subsection")){
241
242         cvtemplate.getSectionObj(sectionCounter).addBulletListItem(new
BulletListItem(getDate(checkNextLine),getWithoutDate(checkNextLine.substring(12))));
243         cvtemplate.getSectionObj(sectionCounter).addBulletList(listCounter,
new BulletList(checkNextLine.substring(12, checkNextLine.length()-1));
244         int listItemCounter = 0;
245
246         inputStream.nextLine(); //begin itemize
247         checkNextLine=inputStream.nextLine();
248
249         if(checkNextLine.substring(0, 5).equals("\item")){
250
251             cvtemplate.getSectionObj(sectionCounter).getBulletList(listCounter)
.addBulletListItem(new BulletListItem(checkNextLine.substring(6)));
252             checkNextLine=inputStream.nextLine();
253             listItemCounter++;
254
255             if(checkNextLine.isEmpty()) break;
256         }else{
257             System.out.println("Wrong Input Professional Experience");
258             break;
259         }
260
261         if(checkNextLine.substring(0, 5).equals("\item")){
262
263             cvtemplate.getSectionObj(sectionCounter).getBulletList(listCounter)
.addBulletListItem(new
BulletListItem(checkNextLine.substring(6,checkNextLine.length()-2)));
264             checkNextLine=inputStream.nextLine();
265             listItemCounter++;
266
267             if(checkNextLine.isEmpty()) break;
268
269         }else{
270             System.out.println("Wrong Input Professional Experience");
271             break;
272         }
273

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274         while (!checkNextLine.equals("\\end{itemize}")){
275
276             cvtemplate.getSectionObj(sectionCounter).getBulletList(listCounter)
                .addBulletListItem(new
BulletListItem(checkNextLine.substring(0, checkNextLine.length()-2)));
277             checkNextLine=inputStream.nextLine();
278             listItemCounter++;
279             if(checkNextLine.isEmpty()) break;
280
281         }
282
283         checkNextLine=inputStream.nextLine();
284
285         if(checkNextLine.isEmpty()) break;
286         listCounter++;
287
288     }
289     notSkipLine=1;
290 }
291
292 private static boolean sectionRepetitionCheck(String checkNextLine, CVTemplate
cvtemplate){
293     for(int i=0; i<cvtemplate.getNumberOfSectionObj(); i++){
294         if( checkNextLine.equals(cvtemplate.getSectionObjTitle(i))){
295             JOptionPane.showMessageDialog(null, "Repeated section of " +
checkNextLine + ". Skipping.");
296             if(checkNextLine.equals("Professional Profile:") ||
checkNextLine.equals("Additional Information:") ||
297                 checkNextLine.equals("Interests:")){
298                 inputStream.nextLine();
299
300                 return true;
301             }
302
303         }
304     }
305     return false;
306 }
307
308 private static Date getDate(String input) throws ParseException{
309     Date date;
310
311     SimpleDateFormat sdf = new SimpleDateFormat("dd-MM-yyyy");
312     date = sdf.parse(input.substring(input.length() - 10));
313
314     return date;
315 }
316
317 private static String getWithoutDate(String input){
318
319     return input.substring(0, input.length() - 12);
320 }
321
322 }
323
324 }
325

```