

# OutputMerge.java

```

1 package outputManagePackage;
2
3 import java.util.ArrayList;
4
5
6
7
8
9
10
11
12
13
14 public class OutputMerge {
15
16     static CVTemplate cvtemplatemerge;
17     static int checkDifferent, objectIndex;
18     static int checkDifferentPE=0;
19
20     public static void mergeTwoCv(CVTemplate cvtemplatel, CVTemplate cvtemplate2,
21     JList<String> firstCVSectionsJList, JList<String> secondCVSectionsJList, int
22     outputType){
23
24         objectIndex=0;
25
26         String applicantName = cvtemplatel.getApplicantName();
27         String applicantAddress = cvtemplatel.getApplicantAddress();
28         String applicantHomeTelephone = cvtemplatel.getApplicantHomeTelephone();
29         String applicantWorkTelephone = cvtemplatel.getApplicantWorkTelephone();
30         String applicantEmail = cvtemplatel.getApplicantEmail();
31         cvtemplatemerge= new CVTemplate(applicantName, applicantAddress,
32         applicantHomeTelephone,
33         applicantWorkTelephone, applicantEmail);
34
35         for (int i=0; i<firstCVSectionsJList.getSelectedValuesList().size(); i++){
36             checkDifferent =0;
37             for (int j=0; j<secondCVSectionsJList.getSelectedValuesList().size(); j+
38             +){
39                 if
40                 (firstCVSectionsJList.getSelectedValuesList().get(i).equals(secondCVSectionsJList.getS
41                 electedValuesList().get(j))) {
42                     addToCVSameSection(cvtemplatel, cvtemplate2, firstCVSectionsJList.ge
43                     tSelectedValuesList().get(i));
44                     checkDifferent=1;
45                     break;
46                 }
47             }
48
49             if (checkDifferent==0) addToCVDifferentSection(cvtemplatel, cvtemplate2
50             ,firstCVSectionsJList.getSelectedValuesList().get(i));
51         }
52
53         for (int i=0; i<secondCVSectionsJList.getSelectedValuesList().size(); i++){
54             checkDifferent =0;
55             for (int j=0; j<firstCVSectionsJList.getSelectedValuesList().size(); j++){
56                 if
57                 (secondCVSectionsJList.getSelectedValuesList().get(i).equals(firstCVSectionsJList.getS
58                 electedValuesList().get(j))) {
59                     addToCVSameSection(cvtemplatel, cvtemplate2, secondCVSectionsJList.g
60                     etSelectedValuesList().get(i));
61                     checkDifferent=1;
62                     break;
63                 }
64             }
65         }
66     }
67 }

```

# OutputMerge.java

```

58         if (checkDifferent==0) addToCVDifferentSection(cvtemplatel, cvtemplate2
,secondCVSectionsJList.getSelectedValuesList().get(i));
59
60     }
61
62
63     cvtemplatemerge=sortSections(cvtemplatemerge);
64
65     Database.addCVtemplateToList(cvtemplatemerge);
66     if(outputType==0){
67         OutputSystemTxt.saveApplicantInfoToTxt("outputFiles",
Database.getCVtemplateArrayListSize()-1);
68     }else if(outputType==1){
69         OutputSystemLatex.saveApplicantInfoToLatex("outputFiles",
Database.getCVtemplateArrayListSize()-1);
70     }else if(outputType==2){
71         OutputSystemTxt.saveApplicantInfoToTxt("outputFiles",
Database.getCVtemplateArrayListSize()-1);
72         OutputSystemLatex.saveApplicantInfoToLatex("outputFiles",
Database.getCVtemplateArrayListSize()-1);
73     }
74 }
75
76 private static void addToCVSameSection(CVTemplate cvtemplatel, CVTemplate
cvtemplate2, String section){
77     if(section.equals("Professional Profile") || section.equals("Additional
Information"))
78         || section.equals("Interests") ){
79         for(int i=0; i < cvtemplatel.getNumberOfSectionObj(); i++){
80             if(cvtemplatel.getSectionObjTitle(i).equals(section+":")){
81                 if
82                 (checkIfSameSection(cvtemplatemerge,cvtemplatel.getSectionObj(i))==0){
83                     cvtemplatemerge.addSectionObj(objectIndex,
cvtemplatel.getSectionObj(i));
84                     objectIndex++;
85                 }
86             }
87         }
88
89
90
91     }else if(section.equals("Career Summary") || section.equals("Education and
Training"))
92         || section.equals("Further Courses") ){
93
94
95         for(int i=0; i < cvtemplatel.getNumberOfSectionObj(); i++){
96             for(int j=0; j < cvtemplate2.getNumberOfSectionObj(); j++){
97                 if(cvtemplatel.getSectionObjTitle(i).equals(section+":") &&
cvtemplate2.getSectionObjTitle(j).equals(section+":")){
98
99                     addToCVSameSectionCompareItems(cvtemplatel.getSectionObj(i),
cvtemplate2.getSectionObj(j),section);
100
101                 }
102             }
103         }
104

```

```

105
106     }else if(section.equals("Skills and Experience")){
107
108         for(int i=0; i < cvtemplatel1.getNumberOfSectionObj(); i++){
109             for(int j=0; j < cvtemplate2.getNumberOfSectionObj(); j++){
110                 if(cvtemplatel1.getSectionObjTitle(i).equals(section+":") &&
111 cvtemplate2.getSectionObjTitle(j).equals(section+":")){
112                     addToCVSameSectionCompareLists(cvtemplatel1.getSectionObj(i),
113 cvtemplate2.getSectionObj(j),section);
114                 }
115             }
116         }
117
118     }else if(section.equals("Professional Experience")){
119
120         for(int i=0; i < cvtemplatel1.getNumberOfSectionObj(); i++){
121             for(int j=0; j < cvtemplate2.getNumberOfSectionObj(); j++){
122                 if(checkDifferentPE==0 &&
123 cvtemplatel1.getSectionObjTitle(i).equals(section+":") &&
124 cvtemplate2.getSectionObjTitle(j).equals(section+":")){
125                     //addToCVSameSectionCompareListsAndItems(cvtemplatel1.getSectionObj(i),
126 cvtemplate2.getSectionObj(j),section);
127                     cvtemplatemerge.addSectionObj(objectIndex,
128 cvtemplatel1.getSectionObj(i));
129                     objectIndex++;
130                     checkDifferentPE=1;
131                 }
132             }
133         }
134     }
135 }
136
137 /* beta stage */
138
139 private static void addToCVSameSectionCompareListsAndItems(Section section1,
140 Section section2, String section){
141     Section tempSection= new Section(section+":");
142
143     for(int i=0; i<section1.getSingleBulletListItems()-1;i++){
144         for(int j=0; j<section2.getSingleBulletListItems()-1;j++){
145             if(!section1.getBulletListItem(i).getContents().equals(section2.getBulletListItem(j).getContents())){
146
147                 int checkOne=0, checkTwo=0, bulletListCounter1=0,
148 bulletListCounter2=0;
149
150                 for (int p=0; p<tempSection.getSingleBulletListItems(); p+
151 +){
152                     String
153 tempSectionCVItem=tempSection.getBulletListItem(p).getContents()+
154 tempSection.getBulletListItem(p).getStringDate();

```

# OutputMerge.java

```

153         if(section1.getBulletListItem(i).getContents().equals(tempSection
ionCVItem)){
154             checkOne++;
155         }
156         if(section2.getBulletListItem(j).getContents().equals(tempSection
ionCVItem)){
157             checkTwo++;
158         }
159         if (checkOne==1 && checkTwo==1) break;
160     }
161 }
162
163     if(checkOne==0){
164
165         tempSection.addBulletListItem(section1.getBulletListItem(i)
);
166         tempSection.addBulletList(bulletListCounter1,new
BulletList (section1.getBulletListItem(i).getContents()));
167         bulletListCounter1++;
168         for (int
k=0;k<section1.getBulletList(i).getNumberOfItems();k++){
169             tempSection.addBulletListItem(section1.getBulletList(bulletListCou
nter1).getBulletListItem(k));
170         }
171     }
172 }
173     if(checkTwo==0){
174         tempSection.addBulletListItem(section2.getBulletListItem(j)
);
175         tempSection.addBulletList(bulletListCounter2,new
BulletList (section2.getBulletListItem(j).getContents()));
176         bulletListCounter2++;
177         for (int
k=0;k<section2.getBulletList(j).getNumberOfItems();k++){
178             tempSection.addBulletListItem(section2.getBulletList(bulletListCou
nter2).getBulletListItem(k));
179         }
180     }
181 }
182
183
184
185     }
186
187
188     }
189
190
191 }
192
193     cvtemplatemerge.addSectionObj(objectIndex, tempSection);
194     objectIndex++;
195 }
196
197 /* beta stage */
198
199 private static void addToCVSameSectionCompareLists(Section section1, Section

```

# OutputMerge.java

```

    section2,String section){
200         Section tempSection = new Section(section+":");
201         int bulletListIndex=0;
202         for(int i=0;i<section1.getNumberOfBulletLists();i++){
203             for(int j=0; j<section2.getNumberOfBulletLists();j++){
204
205                 if(!section1.getBulletList(i).getTitle().equals(section2.getBulletList(
j).getTitle())){
206                     if(checkIfBulletListExists(tempSection,section2.getBulletList(j))=
=0){
207                         tempSection.addBulletList(bulletListIndex,section2.getBulletLi
st(j));
208                         bulletListIndex++;
209                     }
210
211                 }else{
212                     for(int k=0;k<section1.getBulletList(i).getNumberOfItems();k++){
213                         for(int p=0;p<section2.getBulletList(j).getNumberOfItems();p+
+){
214                             if(!section1.getBulletList(i).getBulletListItem(k).getCont
ents().
215                                 equals(section2.getBulletList(j).getBulletListItem(
p).getContents())){
216                                 if(checkIfBulletListItemExists(tempSection.getBulletLi
st(bulletListIndex-1),section2.getBulletList(j).getBulletListItem(p))==0){
217                                     tempSection.getBulletList(bulletListIndex-1).addBu
lletListItem(section2.getBulletList(j).getBulletListItem(p));
218
219                                 }
220
221                             }
222
223                         }
224                     }
225
226                 }
227
228             }
229
230             tempSection.addBulletList(bulletListIndex,
section1.getBulletList(i));
231             bulletListIndex++;
232
233         }
234     }
235
236 }
237
238 for(int i=0; i<tempSection.getNumberOfBulletLists();i++){
239     for(int j=i+1;j<tempSection.getNumberOfBulletLists();j++){
240         if(tempSection.getBulletList(i).getTitle().equals(tempSection.getBulle
tList(j).getTitle())){
241             tempSection.removeBulletList(j);
242
243         }
244
245     }
246 }
247

```

```

248
249     }
250
251     if (checkIfSameSection(cvtemplatemerge,tempSection)==0) {
252
253         cvtemplatemerge.addSectionObj(objectIndex, tempSection);
254         objectIndex++;
255     }
256
257 }
258
259 private static int checkIfBulletListItemExists(BulletList toCheckList,
BulletListItem toCheckItem) {
260     int checkIfExists=0;
261     for (int i=0;i<toCheckList.getNumberOfItems();i++) {
262         if(toCheckList.getBulletListItem(i).getContents().equals(toCheckItem.getCo
ntents())) {
263             checkIfExists=1;
264             break;
265         }
266     }
267     return checkIfExists;
268
269 }
270
271
272
273 private static int checkIfBulletListExists(Section toCheckSection, BulletList
toCheckList) {
274     int checkIfExists=0;
275     for (int i=0;i<toCheckSection.getNumberOfBulletLists();i++) {
276         if(toCheckSection.getBulletList(i).getTitle().equals(toCheckList.getTitle(
))) {
277             checkIfExists=1;
278             break;
279         }
280     }
281     return checkIfExists;
282
283 }
284
285 private static void addToCVSameSectionCompareItems(Section section1, Section
section2,String section){
286
287     Section tempSection = new Section(section+":");
288     for (int k=0; k<section1.getSingleBulletListItems();k++) {
289         for (int l=0; l<section2.getSingleBulletListItems();l++) {
290             String tempCVItem1 = section1.getBulletListItem(k).getContents()+
section1.getBulletListItem(k).getStringDate();
291             String tempCVItem2=section2.getBulletListItem(l).getContents()+
section2.getBulletListItem(l).getStringDate();
292             if(!tempCVItem1.equals(tempCVItem2)) {
293                 int checkOne=0, checkTwo=0;
294
295                 for (int p=0; p<tempSection.getSingleBulletListItems(); p+
+){
296                     String
tempSectionCVItem=tempSection.getBulletListItem(p).getContents()+
297                     tempSection.getBulletListItem(p).getStringDate();

```

# OutputMerge.java

```

298         if(tempCVItem1.equals(tempSectionCVItem)){
299             checkOne++;
300         }
301         if(tempCVItem2.equals(tempSectionCVItem)){
302             checkTwo++;
303         }
304         if (checkOne==1 && checkTwo==1) break;
305     }
306 }
307
308
309     if(checkOne==0)
310         tempSection.addBulletListItem(section1.getBulletListItem(k));
311     if(checkTwo==0)
312         tempSection.addBulletListItem(section2.getBulletListItem(l));
313 }
314
315 }
316 }
317
318     if (checkIfSameSection(cvtemplatemerge,tempSection)==0){
319         cvtemplatemerge.addSectionObj(objectIndex, tempSection);
320         objectIndex++;
321     }
322 }
323
324
325     private static int checkIfSameSection(CVTemplate cvtemplatecheck, Section
326     cvsectioncheck){
327         int checkIfSameSection=0;
328         for (int i=0;i<cvtemplatecheck.getNumberOfSectionObj();i++){
329             if(cvtemplatecheck.getSectionObj(i).getTitle().equals(cvsectioncheck.getTi
330             tle())){
331                 checkIfSameSection=1;
332                 break;
333             }
334         }
335         return checkIfSameSection;
336     }
337
338     private static void addToCVDifferentSection(CVTemplate cvtemplate1, CVTemplate
339     cvtemplate2, String sectiontitle){
340         for(int i=0; i < cvtemplate1.getNumberOfSectionObj(); i++){
341             if(cvtemplate1.getSectionObjTitle(i).equals(sectiontitle+":")){
342                 cvtemplatemerge.addSectionObj(objectIndex,
343                 cvtemplate1.getSectionObj(i));
344                 objectIndex++;
345             }
346         }
347     }
348 }
349
350     private static CVTemplate sortSections(CVTemplate cvtemplate){

```

# OutputMerge.java

```

351         CVTemplate tempCVTemplate = new CVTemplate(cvtemplate.getApplicantName(),
cvtemplate.getApplicantAddress(),
352             cvtemplate.getApplicantHomeTelephone(),
cvtemplate.getApplicantWorkTelephone(), cvtemplate.getApplicantEmail());
353         int tempCount=0;
354         for (int i=cvtemplate.getNumberOfSectionObj()-1; i>=0; i--){
355
356             if(cvtemplate.getSectionObjTitle(i).equals("Professional Profile:")){
357                 tempCVTemplate.addSectionObj(tempCount, cvtemplate.getSectionObj(i));
358                 tempCount++;
359             }else if(cvtemplate.getSectionObjTitle(i).equals("Skills and
Experience:")){
360                 tempCVTemplate.addSectionObj(tempCount, cvtemplate.getSectionObj(i));
361                 tempCount++;
362             }else if(cvtemplate.getSectionObjTitle(i).equals("Core Strengths:")){
363                 tempCVTemplate.addSectionObj(tempCount, cvtemplate.getSectionObj(i));
364                 tempCount++;
365             }else if(cvtemplate.getSectionObjTitle(i).equals("Professional
Experience:")){
366                 tempCVTemplate.addSectionObj(tempCount, cvtemplate.getSectionObj(i));
367                 tempCount++;
368             }else if(cvtemplate.getSectionObjTitle(i).equals("Career Summary:")){
369                 tempCVTemplate.addSectionObj(tempCount, cvtemplate.getSectionObj(i));
370                 tempCount++;
371             }else if(cvtemplate.getSectionObjTitle(i).equals("Education and
Training:")){
372                 tempCVTemplate.addSectionObj(tempCount, cvtemplate.getSectionObj(i));
373                 tempCount++;
374             }else if(cvtemplate.getSectionObjTitle(i).equals("Further Courses:")){
375                 tempCVTemplate.addSectionObj(tempCount, cvtemplate.getSectionObj(i));
376                 tempCount++;
377             }else if(cvtemplate.getSectionObjTitle(i).equals("Additional
Information:")){
378                 tempCVTemplate.addSectionObj(tempCount, cvtemplate.getSectionObj(i));
379                 tempCount++;
380             }else if(cvtemplate.getSectionObjTitle(i).equals("Interests:")){
381                 tempCVTemplate.addSectionObj(tempCount, cvtemplate.getSectionObj(i));
382                 tempCount++;
383             }
384
385         }
386     }
387
388     cvtemplate = tempCVTemplate;
389     return cvtemplate;
390 }
391
392 }
393

```