

```

1 package inputManagePackage;
2
3 import java.io.FileInputStream;
4
14
15 public abstract class InputSystem {
16
17     protected static final int EMAIL_TAG_LENGTH = 7;
18     protected static final int WORK_TEL_TAG_LENGTH = 18;
19     protected static final int HOME_TEL_TAG_LENGTH = 18;
20     protected static final int ADDRESS_TAG_LENGTH = 9;
21     protected static final int NAME_TAG_LENGTH = 6;
22     protected Scanner inputStream = null;
23     protected Scanner checkStream = null;
24     protected int checkIfSection = 0;
25     protected int notSkipLine = 0;
26     protected ArrayList<Section> inputCvTemplateSectionObj = new ArrayList<Section>();
27     protected int minRequiredNumberOfLines;
28     protected int generalInfoEndTagLength;
29
30     public InputSystem() {
31         super();
32     }
33
34     public void addCvDataFromFile(int index, String filePath) throws ParseException {
35
36         initScanners(filePath);
37
38         if (hasOnlyGeneralInformation() == true)
39             return;
40
41         skipLines();
42
43         CVTemplate cvtemplate = createTemplateWithGeneralInfo();
44
45         readCVSections(cvtemplate);
46
47         inputStream.close();
48         checkStream.close();
49
50         templateTypeSilentIdentifier(cvtemplate);
51         Database.addCVtemplateToList(cvtemplate);
52
53     }
54
55     protected void initScanners(String filePath) {
56         try {
57             inputStream = new Scanner(new FileInputStream(filePath));
58             checkStream = new Scanner(new FileInputStream(filePath));
59         } catch (FileNotFoundException e) {
60             System.out.println("Problem opening file.");
61             System.exit(0);
62         }
63     }
64
65     protected boolean hasOnlyGeneralInformation() {
66         int i = 0;
67         while (checkStream.hasNextLine() && checkStream.nextLine().length() > 0) {
68             i++;
69             checkStream.nextLine();

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```

70     }
71
72     if (i < minRequiredNumberOfLines) {
73         JOptionPane.showMessageDialog(null, "Invalid input file. Reached eof while
on General Info.");
74         return true;
75     }
76
77     return false;
78 }
79
80 abstract protected void skipLines();
81
82 protected CVTemplate createTemplateWithGeneralInfo() {
83     final String name = inputStream.nextLine();
84     String applicantName = name.substring(NAME_TAG_LENGTH, name.length() -
generalInfoEndTagLength);
85     final String address = inputStream.nextLine();
86     String applicantAddress = address.substring(ADDRESS_TAG_LENGTH,
address.length() - generalInfoEndTagLength);
87     final String homeTel = inputStream.nextLine();
88     String applicantHomeTelephone = homeTel.substring(HOME_TEL_TAG_LENGTH,
homeTel.length() - generalInfoEndTagLength);
89     final String workTel = inputStream.nextLine();
90     String applicantWorkTelephone = workTel.substring(WORK_TEL_TAG_LENGTH,
workTel.length() - generalInfoEndTagLength);
91     final String email = inputStream.nextLine();
92     String applicantEmail = email.substring(EMAIL_TAG_LENGTH, email.length() -
generalInfoEndTagLength);
93
94     CVTemplate cvtemplate = new CVTemplate(applicantName, applicantAddress,
applicantHomeTelephone,
95     applicantWorkTelephone, applicantEmail);
96     return cvtemplate;
97 }
98
99
100
101 void readCVSections(CVTemplate cvtemplate) throws ParseException {
102     int sectionCounter = 0;
103     String checkEoF = null;
104
105     while (inputStream.hasNextLine()) {
106
107         if (notSkipLine == 0) {
108             checkEoF = inputStream.nextLine();
109
110         }
111         notSkipLine = 0;
112
113         if (checkEoF(checkEoF))
114             break;
115         inputCvAddSection(sectionCounter, cvtemplate);
116
117     }
118 }
119
120 protected abstract boolean checkEoF(String checkEoF);
121
122 protected abstract void inputCvAddSection(int sectionCounter, CVTemplate
cvtemplate) throws ParseException;

```

InputSystem.java

```
123
124     public int templateTypeSilentIdentifier(CVTemplate cvtemplate) {
125         int checkForFunctional = 0;
126         int checkForChronological = 0;
127         int checkForCombined = 0;
128
129         for (int i = 0; i < cvtemplate.getNumberOfSectionObj(); i++) {
130
131             if (cvtemplate.getSectionObjTitle(i).equals("Skills and Experience:")) {
132                 checkForFunctional++;
133                 checkForCombined++;
134             } else if (cvtemplate.getSectionObjTitle(i).equals("Career Summary:")) {
135                 checkForFunctional++;
136
137             } else if (cvtemplate.getSectionObjTitle(i).equals("Professional
138 Experience:")) {
139                 checkForChronological++;
140                 checkForCombined++;
141             } else if (cvtemplate.getSectionObjTitle(i).equals("Core Strengths:")) {
142                 checkForChronological++;
143             }
144         }
145     }
146
147     if (checkForChronological != 2 && checkForCombined != 2 && checkForFunctional
148 == 2) {
149         return 0;
150     } else if (checkForChronological == 2 && checkForCombined != 2 &&
151 checkForFunctional != 2) {
152         return 1;
153     } else if (checkForChronological != 2 && checkForCombined == 2 &&
154 checkForFunctional != 2) {
155         return 2;
156     } else {
157         return -1;
158     }
159 }
```