

# OutputManager.java

```

1 package outputManager;
2
3 import java.awt.Color;
16
17 public class OutputManager {
18     private String domain;
19
20     public void creatInfoXmlFile(Taxpayer taxp){
21         ArrayList<String> myList = new ArrayList<String>();
22         String fullDomain = domain + taxp.getAfm() + "_INFO.xml";
23         File file = new File(fullDomain);
24         if(file.exists() && file.isFile()){
25             myList.add("<Name> " + taxp.getName() + " </Name>");
26             myList.add("<AFM> " + taxp.getAfm() + " </AFM>");
27             myList.add("<Status> " + taxp.getFamilyStatus() + " </Status>");
28             myList.add("<Income> " + taxp.getIncome() + " </Income>");
29             myList.add("");
30             myList.add("");
31             myList.add("<Receipts>");
32             myList.add("");
33             myList.add("");
34
35             for(int i=0; i<taxp.getReceipts().size(); i++){
36                 myList.add("<ReceiptID> " +
taxp.getReceipts().get(i).getReceiptCode() + " </ReceiptID>");
37                 myList.add("<Date> " + taxp.getReceipts().get(i).getDateOfIssue() + "
</Date>");
38                 myList.add("<Kind> " + taxp.getReceipts().get(i).getCategory() + "
</Kind>");
39                 myList.add("<Amount> " + taxp.getReceipts().get(i).getAmountPaid()
+ " </Amount>");
40                 myList.add("<Company> " +
taxp.getReceipts().get(i).getSeller().getCompanyName() + " </Company>");
41                 myList.add("<Country> " +
taxp.getReceipts().get(i).getSeller().getCountry() + " </Country>");
42                 myList.add("<City> " +
taxp.getReceipts().get(i).getSeller().getCity() + " </City>");
43                 myList.add("<Street> " +
taxp.getReceipts().get(i).getSeller().getStreet() + " </Street>");
44                 myList.add("<Number> " +
taxp.getReceipts().get(i).getSeller().getStreetNumber() + " </Number>");
45                 myList.add("");
46                 myList.add("");
47             }
48             myList.add("</Receipts>");
49
50             try{
51                 PrintWriter output = new PrintWriter(file);
52                 for(String myString: myList){
53                     output.println(myString);
54                 }
55                 output.close();
56             } catch (IOException ex){
57                 System.out.printf("ERROR: %s\n", ex);
58             }
59         }
60     }
61
62     public void creatLogXmlFile(Taxpayer taxp){
63         ArrayList<String> myList = new ArrayList<String>();
64         String fullDomain = domain + taxp.getAfm() + "_LOG.xml";
65         File file = new File(fullDomain);
66
67         myList.add("<Name> " + taxp.getName() + " </Name>");

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68     myList.add("<AFM> " + taxp.getAfm() + " </AFM>");
69     myList.add("<Income> " + taxp.getIncome() + " </Income>");
70     myList.add("<BasicTax> " + taxp.getBasicTax() + " </BasicTax>");
71     myList.add("<TaxIncrease> " + taxp.getTaxIncrease() + " </TaxIncrease>");
72     myList.add("<TotalTax> " + taxp.getTotalTax() + " </TotalTax>");
73     myList.add("<Receipts> " + taxp.getTotalReceiptsGathered() + "
</Receipts>");
74     myList.add("<Entertainment> " +
taxp.getCategoryNumberOfReceipts("Entertainment") + " </Entertainment>");
75     myList.add("<Basic> " + taxp.getCategoryNumberOfReceipts("Basic") + "
</Basic>");
76     myList.add("<Travel> " + taxp.getCategoryNumberOfReceipts("Travel") + "
</Travel>");
77     myList.add("<Health> " + taxp.getCategoryNumberOfReceipts("Health") + "
</Health>");
78     myList.add("<Other> " + taxp.getCategoryNumberOfReceipts("Other") + "
</Other>");
79
80     try{
81         PrintWriter output = new PrintWriter(file);
82         for(String myString: myList){
83             output.println(myString);
84         }
85         output.close();
86     } catch (IOException ex){
87         System.out.printf("ERROR: %s\n", ex);
88     }
89 }
90
91 public void creatInfoTextFile(Taxpayer taxp){
92     ArrayList<String> myList = new ArrayList<String>();
93     String fullDomain = domain + taxp.getAfm() + "_INFO.txt";
94     File file = new File(fullDomain);
95     if(file.exists() && file.isFile()){
96         myList.add("Name: " + taxp.getName());
97         myList.add("AFM: " + taxp.getAfm());
98         myList.add("Status: " + taxp.getFamilyStatus());
99         myList.add("Income: " + taxp.getIncome());
100        myList.add("");
101        myList.add("");
102        myList.add("Receipts:");
103        myList.add("");
104        myList.add("");
105
106        for(int i=0; i<taxp.getReceipts().size(); i++){
107            myList.add("Receipt ID: " +
taxp.getReceipts().get(i).getReceiptCode());
108            myList.add("Date: " + taxp.getReceipts().get(i).getDateOfIssue());
109            myList.add("Kind: " + taxp.getReceipts().get(i).getCategory());
110            myList.add("Amount: " + taxp.getReceipts().get(i).getAmountPaid());
111            myList.add("Company: " +
taxp.getReceipts().get(i).getSeller().getCompanyName());
112            myList.add("Country: " +
taxp.getReceipts().get(i).getSeller().getCountry());
113            myList.add("City: " +
taxp.getReceipts().get(i).getSeller().getCity());
114            myList.add("Street: " +
taxp.getReceipts().get(i).getSeller().getStreet());
115            myList.add("Number: " +
taxp.getReceipts().get(i).getSeller().getStreetNumber());
116            myList.add("");
117            myList.add("");
118        }
119    }

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120         try{
121             PrintWriter output = new PrintWriter(file);
122             for(String myString: myList){
123                 output.println(myString);
124             }
125             output.close();
126         } catch (IOException ex){
127             System.out.printf("ERROR: %s\n", ex);
128         }
129     }
130 }
131
132 public void creatLogTestFile(Taxpayer taxp){
133     ArrayList<String> myList = new ArrayList<String>();
134     String fullDomain = domain + taxp.getAfm() + "_LOG.txt";
135     File file = new File(fullDomain);
136
137     myList.add("Name: " + taxp.getName());
138     myList.add("AFM: " + taxp.getAfm());
139     myList.add("Income: " + taxp.getIncome());
140     myList.add("Basic Tax: " + taxp.getBasicTax());
141     myList.add("Tax Increase: " + taxp.getTaxIncrease());
142     myList.add("Total Tax: " + taxp.getTotalTax());
143     myList.add("Receipts: " + taxp.getTotalReceiptsGathered());
144     myList.add("Entertainment: " +
145     taxp.getCategoryNumberOfReceipts("Entertainment"));
146     myList.add("Basic: " + taxp.getCategoryNumberOfReceipts("Basic"));
147     myList.add("Travel: " + taxp.getCategoryNumberOfReceipts("Travel"));
148     myList.add("Health: " + taxp.getCategoryNumberOfReceipts("Health"));
149     myList.add("Other:" + taxp.getCategoryNumberOfReceipts("Other"));
150
151     try{
152         PrintWriter output = new PrintWriter(file);
153         for(String myString: myList){
154             output.println(myString);
155         }
156         output.close();
157     } catch (IOException ex){
158         System.out.printf("ERROR: %s\n", ex);
159     }
160
161     public void creatPieChart(Taxpayer taxp){
162         DefaultPieDataset pieDataset = new DefaultPieDataset();
163         pieDataset.setValue("Entertainment; " +
164         taxp.getCategoryReceiptAmountPaid("Entertainment"),
165         taxp.getCategoryReceiptAmountPaid("Entertainment"));
166         pieDataset.setValue("Basic; " + taxp.getCategoryReceiptAmountPaid("Basic"),
167         taxp.getCategoryReceiptAmountPaid("Basic"));
168         pieDataset.setValue("Travel; " +
169         taxp.getCategoryReceiptAmountPaid("Travel"),
170         taxp.getCategoryReceiptAmountPaid("Travel"));
171         pieDataset.setValue("Health; " +
172         taxp.getCategoryReceiptAmountPaid("Health"),
173         taxp.getCategoryReceiptAmountPaid("Health"));
174         pieDataset.setValue("Other; " + taxp.getCategoryReceiptAmountPaid("Other"),
175         taxp.getCategoryReceiptAmountPaid("Other"));
176         JFreeChart chart = ChartFactory.createPieChart("Pie Chart", pieDataset,
177         true, true, true);
178         PiePlot plot = (PiePlot) chart.getPlot();
179         ChartFrame frame = new ChartFrame("Pie Chart", chart);
180         frame.setVisible(true);
181         frame.setSize(450, 500);
182     }

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179
180     public void creatBarChart(Taxpayer taxp){
181         DefaultCategoryDataset dataset = new DefaultCategoryDataset();
182         dataset.setValue(taxp.getBasicTax(), "", "Basic Tax");
183         dataset.setValue(taxp.getTaxIncrease(), "", "Tax increase");
184         dataset.setValue(taxp.getTotalTax(), "", "Total tax");
185         JFreeChart chart = ChartFactory.createBarChart("", "", "Tax analysis in $",
dataset);
186         CategoryPlot p = chart.getCategoryPlot();
187         p.setRangeGridlinePaint(Color.black);
188         ChartFrame frame = new ChartFrame("", chart);
189         frame.setVisible(true);
190         frame.setSize(450,500);
191     }
192
193     public void setDomain(String domain){
194         this.domain = domain;
195     }
196 }
197
```