

TableHandler.java

```

1 //*****
2 //
3 // File:    TableHandler.java
4 // Package: ---
5 // Unit:    Class TableHandler
6 //
7 //*****
8
9 import java.io.FileNotFoundException;
10 import java.io.PrintWriter;
11 import edu.rit.util.AList;
12
13 /**
14  * Class handles writing the CSV file containing the results of the simulations.
15  *
16  * @author Jimi Ford (jhf3617)
17  * @version 4-4-2015
18  */
19 public class TableHandler {
20
21     // private data members
22     private final String file;
23     private final AList<SimulationResult> results;
24
25     /**
26      * Construct a TableHandler
27      * @param prefix the prefix of the file name
28      * @param results the collective results of the simulations
29      */
30     public TableHandler(String prefix, AList<SimulationResult> results) {
31         this.file = prefix + "-table.csv";
32         this.results = results;
33     }
34
35     /**
36      * write a CSV file containing the results of the simulations
37      */
38     public void write() {
39         SimulationResult temp;
40         StringBuilder builder = new StringBuilder();
41         builder.append("num_stations, average_power, percent_connected,"+'\n');
42         for(int i = 0; i < results.size(); i++) {
43             temp = results.get(i);
44             builder.append(temp.v + ", " + temp.averagePower + ", " +
45                 temp.percentConnected + ", " + '\n');
46         }
47         PrintWriter tableWriter = null;
48         try {
49             tableWriter = new PrintWriter(file);
50             tableWriter.print(builder.toString());
51         } catch (FileNotFoundException e) {
52             System.err.println("Error writing table data to file \"" +
53                 file+"\"");
54         } finally {
55             if(tableWriter != null) tableWriter.close();
56         }
57     }
58 }

```

