

HTMLGen.java

```

1 package xyz.amtstl.soup.output;
2
3 import java.io.FileWriter;
10
11 public class HTMLGen {
12     /**
13      * Total outputs cache
14      */
15     private static List<Float> totalOutputs = new ArrayList<Float>();
16
17     /**
18      * Total Question Strings cache
19      */
20     private static List<String> questionStrings = new ArrayList<String>();
21
22     /**
23      * Gets the total output cache
24      * @return total output object
25      */
26     public static List<Float> getTotalOutputs() {
27         return totalOutputs;
28     }
29
30     /**
31      * Get question strings
32      * @return total questions strings object
33      */
34     public static List<String> getQuestionStrings() {
35         return questionStrings;
36     }
37
38     private static VariableHandler v = new VariableHandler();
39
40     /**
41      * Generates HTML documentation for the Soup session
42      * @param title title on the window
43      * @param description the header of the page
44      * @throws IOException throws if it cannot store
45      */
46     public static void generateOutputDocumentation(String title, String description) throws
47         IOException {
48         try {
49             FileWriter f = new FileWriter(System.getProperty("user.dir") + "\\\" +
50                 "SoupNoodle.html");
51             f.write("<style>h1 {    color: blue;}p {    color: red;}div {    display:
52                 flex;    align-items: center;    justify-content: center;    flex-direction: column;}
53                 </style><title>");
54             f.write(title);
55             f.write("</title><center><h1>");
56             f.write(description + " [" + LocalTime.now().getHour() + ":" +
57                 LocalTime.now().getMinute() + "]"");
58             f.write("</h1></center><div><p>Local Vars</p><ul>");
59             writeVars(f);
60             f.write("</ul><p>Outputs</p><ul>");
61             writeOutputs(f);
62             f.write("</ul></div><div><p>Questions Asked</p><ul>");

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59         writeQuestions(f);
60         f.write("</ul></div>");
61         f.close();
62         System.out.println("Output Generated at " + System.getProperty("user.dir") + "\\\"
+ "SoupNoodle.html");
63     }
64     catch (IOException ex) {
65         System.out.println("Error storing output documentation at " +
System.getProperty("user.dir") + "\\\" + "SoupNoodle.html");
66     }
67 }
68
69 /**
70  * Writes variables from cache
71  * @param j current file writer instance
72  * @throws IOException throws if error storing file
73  */
74 private static void writeVars(FileWriter j) throws IOException {
75     for (float a : v.getVarStore()) {
76         if (a != 0.0)
77             j.write("<li>" + String.valueOf(a) + "</li>");
78     }
79 }
80
81 /**
82  * Writes all the outputs
83  * @param j current file writer instance
84  * @throws IOException throws if error storing file
85  */
86 private static void writeOutputs(FileWriter j) throws IOException {
87     for (float a : totalOutputs) {
88         j.write("<li>" + String.valueOf(a) + "</li>");
89     }
90 }
91
92 /**
93  * Writes all the session's questions
94  * @param j current file writer instance
95  * @throws IOException throws if error storing file
96  */
97 private static void writeQuestions(FileWriter j) throws IOException {
98     for (String a : questionStrings) {
99         j.write("<li>" + a + "</li>");
100     }
101 }
102 }

```