Menu.java 31/05/2015

```
1
     import java.util.*;
 2
 3
    public class Menu
 4
 5
         String options[];
 6
         Scanner scan = new Scanner(System.in);
7
         String title;
8
         Type type;
9
10
         public enum Type
11
12
             FULL, SELECTION;
13
         }
14
         public Menu(String title, String options[], Type type)
15
16
         {
17
             this.options = options;
18
             this.title = title;
19
             this.type = type;
20
         }
21
22
         public void display()
23
         {
24
             if(type == Type.FULL)
25
             {
26
                 displayFull();
27
             }
28
             else if(type == Type.SELECTION)
29
30
                 displaySelection();
31
             }
32
         }
33
34
         public void displayFull()
35
         {
36
             + " ********** \n");
37
38
39
             // Print each menu option
             for(int i = 0; i < options.length; i++)</pre>
40
41
                 System.out.println(String.format("%-24s%5d", options[i], i + 1));
42
43
44
             System.out.println(String.format("%-24s%5d", "Exit", 0));
45
46
             // Print asterisks to make bottom line length equal to top
             System.out.println(new String(new char[32 + title.length()])
47
48
                     .replace("\0", "*"));
49
             System.out.print("Your choice: ");
         }
50
51
52
         public void displaySelection()
53
         {
54
             System.out.println("\n" + title);
55
56
             // Print each menu option
57
             for(int i = 0; i < options.length; i++)</pre>
```

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```
58
             {
59
                 System.out.println("" + (i + 1) + " - " + options[i]);
60
             System.out.println("0 - Exit");
61
62
             System.out.print("\nYour choice: ");
63
         }
64
65
         public int getResponse()
66
67
         {
             int num = -1;
68
69
             do
70
             {
71
                 display();
72
                 String s;
73
                 try
74
75
                      s = scan.nextLine();
76
                     num = Integer.parseInt(s);
77
                 }
78
                 catch(NumberFormatException e)
79
80
                     continue;
81
82
             } while(num < 0 || num > options.length);
83
             return num;
84
         }
85
     }
86
```