

DisplayList.cpp

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1 /*****
2 * PROGRAMMER : Ali Eshghi
3 * STUDENT ID : 1112261
4 * CLASS      : CS1B
5 * SECTION    : MW 7:30pm
6 * Assign #3  : Searching linked list
7 * DUE DATE   : 6 November 2019
8 *****/
9
10 #include "Header.h"
11
12 /*****
13 * Function - DisplayList
14 * -----
15 * This function will output the contents of the nodes of the linked list
16 * created in the CreatList function in the output file created by the user.
17 *
18 * return type - nothing
19 *             the function is void type
20 *****/
21
22 void DisplayList(MovieNode *head, ofstream &outFile)
23 {
24     /*****
25      * VARIABLES *
26      *****/
27
28     int i; //Calc & Out - used for quantity
29
30     /*****
31      * INITIALIZING *
32      *****/
33
34     i = 1;
35
36     // if statement for empty list
37     if (head == NULL)
38     {
39         cout << endl;
40
41         cout << "Can't Display an empty list!";
42
43         cout << endl;
44     }
45
46     else
47     {
48         //SETTING UP THE TABLE
49
50         cout << "Listing all movies!" << endl << endl;
51
52         outFile << endl;
53
54         outFile << left;
```

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56
57     outFile << setw(9) << "MOVIE #"           ;
58     outFile << setw(49) << "TITLE"           ;
59     outFile << setw(6) << "YEAR"             ;
60     outFile << setw(9) << "RATING"           ;
61     outFile << setw(19) << "GENRE"           ;
62     outFile << setw(19) << "ALT GENRE"        ;
63     outFile << setw(20) << "LEAD ACTOR"       ;
64     outFile << setw(20) << "SUPPORTING ACTOR" ;
65
66     outFile << left;
67
68     outFile << endl;
69
70     outFile << "----- ";
71     outFile << "-----";
72     outFile << "----- ";
73     outFile << "----- ";
74     outFile << "----- ";
75     outFile << "----- ";
76     outFile << "----- ";
77     outFile << "----- ";
78
79     outFile << endl;
80
81     //OUTPUTTING DATA IN ALPHABETICAL ORDER
82
83     while(head != NULL)
84     {
85         outFile << right;
86         outFile << setw(4) << i << "          " ;
87         outFile << left;
88         outFile << setw(49) << head -> title    ;
89         outFile << setw(9) << head -> year     ;
90         outFile << setw(9) << head -> rate     ;
91         outFile << setw(19) << head -> genre   ;
92         outFile << setw(19) << head -> altGenre ;
93         outFile << setw(20) << head -> leadActor ;
94         outFile << setw(20) << head -> supportActor;
95         outFile << endl;
96         outFile << left;
97
98         i++;
99         head = head -> next;
100     }
101
102 }
103
104 outFile << endl;
105 }
106

```