PHASE 2, PROGRAM B TESTING PLAN DOCUMENT

Course: CMP SCI 4500-001

Group Number: 10

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order - last names)

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1. 10/10/2024 - Document creation

2. 10/16/2024 - Updated and added more tests

Contents

Revision History:	1
Testing Plan List	3
Enter Empty Last Name	3
Enter Valid Last Name	4
Enter Empty First Name	5
Enter Valid First Name	6
File Matching User Input 'Lastname' + 'Firstname' + 'Log.csv' Format (File Present in Project Directory)	7
File Matching User Input 'Lastname' + 'Firstname' + 'Log.csv' Format (File is Not Present in Projectory)	
Check for an Empty Log File	9
Check for an Invalid First Line in the Matching 'LastnameFirstnameLog.csv' File	10
Check for an Empty Second Line in the Matching 'LastnameFirstnameLog.csv' File	12
Check for an Invalid Second Line in the Matching 'LastnameFirstnameLog.csv' File	13
Check for Missing Time Entries in the Matching 'LastnameFirstnameLog.csv' File	14
Check for a Trailing Comma in Time Entries of 'LastnameFirstnameLog.csv' File	15
Check for Invalid Number of Fields in the Time Entries of 'LastnameFirstnameLog.csv' File	16
Check for Invalid Date Format in the Time Entries of 'LastnameFirstnameLog.csv' File	18
Check for Invalid Time Format in the Time Entries of 'LastnameFirstnameLog.csv' File	20
Check for Negative Time Difference in the Time Entries of 'LastnameFirstnameLog.csv' File	22
Check for Out-of-Range Number of People in the Time Entries of 'LastnameFirstnameLog.csv' F	ile .23
Check for Non-Numeric Number of People in the Time Entries of 'LastnameFirstnameLog.csv' F	-ile .25
Check for Invalid Activity Code in the Time Entries of 'LastnameFirstnameLog.csv' File	26
Check for Missing Notes for Activity Code "D" in the Time Entries of 'LastnameFirstnameLog.cs	
Check for Invalid Notes for Activity Code "D" in the Time Entries of 'LastnameFirstnameLog.csv	
Check for Invalid Notes for Activity Code That Isn't "D" in the Time Entries of	
'LastnameFirstnameLog.csv' File	30
Check for Valid 'LastnameFirstnameLog csv' File	31

Testing Plan List

Enter Empty Last Name

Tester:
Tony Matthews
Date:
10/16/2024
Time:
14:22
Test Description:
Test for an error message when entering an empty last name for the last name prompt.
Expected Result:
The program will prompt the user to enter their last name again.
Input:
Enter your last name:
Output:
Error: Please enter your last name.
Enter your last name:
Result Status:
Success
Result Description:
The program prompted the user to enter their last name again.

Enter Valid Last Name

Tester:
Tony Matthews
Date:
10/16/2024
Time:
14:27
Test Description:
Test for a valid (non-empty) last name for the last name prompt.
Expected Result:
The program will accept the user's input and ask them for their first name.
Input:
Enter your last name: Matthews
Output:
Enter your first name:
Result Status:
Success
Result Description:
The program accepted the user's input and asked them for their first name.

Enter Empty First Name

Tester:
Tony Matthews
Date:
10/16/2024
Time:
14:28
Test Description:
Test for an error message when entering an empty first name for the first name prompt.
Expected Result:
The program will output an error message telling the user to enter their first name and prompt the user again.
Input:
Enter your first name:
Output:
Error: Please enter your first name.
Enter your first name:
Result Status:
Success
Result Description:
The program outputted an error message telling the user to enter their first name and prompted the user again.

Enter Valid First Name

Tester:
Tony Matthews
Date:
10/16/2024
Time:
14:30
Test Description:
Test for a valid (non-empty) first name for the first name prompt.
Expected Result:
The program will accept the user input and tell the user whether or not their log file has been found
Input:
Enter your first name: Tony
Output:
Your file has been found!
Result Status:
Success
Result Description:
The program accepted the user's input and told them whether or not their file had been found

File Matching User Input 'Lastname' + 'Firstname' + 'Log.csv' Format (File Present in Project Directory)

Tester:
Mary Lorenz
Date:
10/11/2024
Time:
00:01
Test Description:
Test for a log file that is present in the project directory with a title that matches the user's input.
Expected Result:
The program will identify a file that matches the user's input and notify the user that the file has been found.
Input:
Lorenz
Mary
Output:
Your file has been found!
Result Status:
Success
Result Description:
The program recognized the files matching the user's input and notified the user that the file has been

found.

File Matching User Input 'Lastname' + 'Firstname' + 'Log.csv' Format (File is Not Present in Project Directory)

Tester:
Mary Lorenz
Date:
10/11/2024
Time:
00:24
Test Description:
Test for an error message when the log file matching the user's input is not found in the project directory.
Expected Result:
The program will notify the user of having no valid log files in the current directory and come to a halt.
Input:
Lorenz
Mary
Output:
Error: A file with the name 'LorenzMaryLog.csv' does not exist.
Result Status:
Success
Result Description:
The program outputs an error message telling the user that their log file doesn't exist and halt execution.

Check for an Empty Log File

Tester:
Tony Matthews
Date:
10/16/2024
Time:
14:17
Test Description:
Test for an error message when the log file is empty.
Expected Result:
The program will notify the user of their log file being empty and halt.
Input:
Matthews
Tony
Output:
Error: Log file is empty in file MatthewsTonyLog.csv at line 0
Result Status:
Success
Result Description:
The program outputs an error message telling the user that their log file is empty and halted execution.

Check for an Invalid First Line in the Matching 'LastnameFirstnameLog.csv' File

Tester:
Tony Matthews
Date:
10/16/2024
Time:
14:39
Test Description:
Test for an error message when the log file matching the user's input has an invalid first line. This will be tested with multiple log files with different first lines.
Expected Result:
The program will tell the user that the first line of their log file is invalid.
Input:
Empty first line:
hello
Missing comma:
Matthews Tony
Missing first name:
Matthews,
Missing last name:
,Tony
Output (For All Log Files Tested):

Error: Invalid format in the first line of the log file in the file MatthewsTonyLog.csv at line 1
Result Status:

Success

Result Description:

The user was notified of the first line's invalidity in their 'LastnameFirstnameLog.csv' file.

Check for an Empty Second Line in the Matching 'LastnameFirstnameLog.csv' File

Tester:
Mary Lorenz
Date:
10/11/2024
Time:
00:44
Test Description:
Test for an error message when the log file matching the user's input has an empty second line.
Expected Result:
The program will notify the user that it is unable to read the second line of the log file and come to a half
Input:
LorenzMaryLog.csv:
Lorenz, Mary
Output:
Error: Invalid format in the second line of the log file in the file LorenzMaryLog.csv at line 2
Result Status:
Success
Result Description:
The program notified the user that it was unable to read the second line of the log file and came to a halt.

Check for an Invalid Second Line in the Matching 'LastnameFirstnameLog.csv' File

Tester:
Mary Lorenz
Date:
10/11/2024
Time:
00:44
Test Description:
Test for an error message when the log file matching the user's input has an invalid second line
Expected Result:
The program will notify the user that their class ID is invalid and come to a halt.
Input:
LorenzMaryLog.csv:
Lorenz, Mary
CS 4501
Output:
Error: Invalid class ID in the second line of the log file in file LorenzMaryLog.csv at line 2
Result Status:
Success
Result Description:
The program notified the user that it was their class ID was invalid and came to a halt.

Check for Missing Time Entries in the Matching 'LastnameFirstnameLog.csv' File

Tester:
Tony Matthews
Date:
10/16/2024
Time:
17:02
Test Description:
Test for missing time entries in the log file.
Expected Result:
The program will notify the user that there are no time entries in the log file and come to a halt.
Input:
No time entries:
Matthews, Tony
CS 4500
Output:
Error: No time log entries found in the log file in file MatthewsTonyLog.csv at line 3
Result Status:
Success
Result Description:
The program notified the user that there was no time log entries found and came to a halt.

Check for a Trailing Comma in Time Entries of 'LastnameFirstnameLog.csv' File

Tester:
Tony Matthews
Date:
10/16/2024
Time:
14:57
Test Description:
Test for an error message when the log file matching the user's input has a trailing comma for one of the time entries.
Expected Result:
The program will notify the user that there is a trailing comma at the end of a line and come to a halt
Input:
Trailing comma:
Matthews, Tony
CS 4500
,
Output:
Error: Trailing comma at end of line in file MatthewsTonyLog.csv at line 3
Result Status:
Success
Result Description:
The program notified the user that there was a trailing comma in the time entries and came to a halt.

Check for Invalid Number of Fields in the Time Entries of 'LastnameFirstnameLog.csv' File

Tester:
Tony Matthews
Date:
10/16/2024
Time:
15:01
Test Description:
Testing for a log file with an invalid number of fields for one of the time entries.
Expected Result:
The program will notify the user that there are an invalid number of items in the time log entry and come to a halt. This will be tested with multiple log files with different numbers of items.
Input:
Less than five fields:
Matthews, Tony
CS 4500
10/07/2024,15:01,15:02
Greater than six fields:
Matthews, Tony
CS 4500
10/07/2024,15:01,15:02,1,0,Read book,hello
Output (For All Log Files Tested:
Error: Invalid number of items in the time log entry in file MatthewsTonyLog.csv at line 3
Result Status:
Success

Result Description:

The program notified the user that there was an invalid number of items in the time log entry and came to a halt.

Check for Invalid Date Format in the Time Entries of 'LastnameFirstnameLog.csv' File

Tester:
Tony Matthews
Date:
10/16/2024
Time:
15:07
Test Description:
Testing for incorrect date format in one of the time entries within the user's log file. This will be tested with multiple log files with different numbers of items.
Expected Result:
The program should notify the user that there is an invalid date format in one of the time entries and come to a halt.
Input:
Invalid date format:
Matthews, Tony
CS 4500
October,13:24,13:25,1,0
Nonexistent date:
Matthews,Tony
CS 4500
10/32/2024,13:24,13:25,1,0
Output (For All Log Files Tested):
Error: Invalid date format in the time log entry in file MatthewsTonyLog.csv at line 3
Result Status:

Success

Result Description:

The program notified the user that the date format in one of their time log entries are invalid and came to a halt.

Check for Invalid Time Format in the Time Entries of 'LastnameFirstnameLog.csv' File

Tester:
Tony Matthews
Date:
10/16/2024
Time:
15:16
Test Description:
Testing for incorrect time format in one of the time entries within the user's log file. This will be tested with multiple log files with different numbers of items.
Expected Result:
The program should notify the user that there is an invalid time format in one of the time entries and come to a halt.
Input:
Invalid time format:
Matthews, Tony
CS 4500
10/07/2024,13-42,13:43,1,0
Invalid time:
Matthews, Tony
CS 4500
10/07/2024,13:42,13:60,1,0
Empty starting time:
Matthews, Tony

CS	4500	

10/07/2024,,13:43,1,0

Empty ending time:

Matthews, Tony

CS 4500

10/07/2024,13:42,,1,0

Output (For All Log Files Tested):

Error: Invalid time format in the time log entry in file MatthewsTonyLog.csv at line 3

Result Status:

Success

Result Description:

The program notified the user that the time format in one of their time log entries are invalid and came to a halt.

Check for Negative Time Difference in the Time Entries of 'LastnameFirstnameLog.csv' File

Tester:
Tony Matthews
Date:
10/16/2024
Time:
15:31
Test Description:
Testing for a negative time difference in one of the time entries within the user's log file.
Expected Result:
The program should notify the user that there is an invalid time format in one of the time entries and come to a halt.
Input:
Negative time difference:
Matthews, Tony
CS 4500
10/07/2024,13:42,13:41,1,0
Output:
Error: End time is earlier than start time in the time log entry in file NegativeTimeDifferenceLog.csv at line 3
Result Status:
Success
Result Description:

The program notified the user of the negative time difference in one of their time log entries and came to a halt.

Check for Out-of-Range Number of People in the Time Entries of 'LastnameFirstnameLog.csv' File

Tester:
Tony Matthews
Date:
10/16/2024
Time:
16:34
Test Description:
Testing for an out-of-range number of people in one of the time entries within the user's log file.
Expected Result:
The program should notify the user that there is an invalid number of people in one of the time entries and come to a halt.
Input:
Below range:
Matthews, Tony
CS 4500
10/07/2024,14:08,14:09,0,0
Above range:
Matthews, Tony
CS 4500
10/07/2024,14:08,14:09,51,0
Output (For All Log Files Tested):
Error: Invalid number of people in the time log entry in file MatthewsTonyLog.csv at line 3
Result Status:
Success

Result Description:

The program notified the user of the number of people being out of range in one of their time log entries and came to a halt.

Check for Non-Numeric Number of People in the Time Entries of 'LastnameFirstnameLog.csv' File

Tester:
Tony Matthews
Date:
10/16/2024
Time:
16:40
Test Description:
Testing for a non-numeric number of people in one of the time entries within the user's log file.
Expected Result:
The program should notify the user that the number of people is non-numeric in one of the time entries and come to a halt.
Input:
Non-numeric:
Matthews, Tony
CS 4500
10/07/2024,14:08,14:09,five,0
Output:
Error: Non-numeric value for number of people in the time log entry in file MatthewsTonyLog.csv at line 3
Result Status:
Success
Result Description:
The program notified the user of the number of people being non-numeric in one of their time log entries and came to a halt.

Check for Invalid Activity Code in the Time Entries of 'LastnameFirstnameLog.csv' File

Tester:
Tony Matthews
Date:
10/16/2024
Time:
16:43
Test Description:
Testing for an invalid activity code in one of the time entries within the user's file.
Expected Result:
The program should notify the user that the activity code is invalid in one of the time entries and come to a halt.
Input:
Length of one:
Matthews, Tony
CS 4500
10/07/2024,14:08,14:09,1,E
Length of more than one:
Matthews, Tony
CS 4500
10/07/2024,14:08,14:09,1,Reading
Output:
Error: Invalid activity code in the time log entry in file MatthewsTonyLog.csv at line 3
Result Status:
Success

Result Description:

The program notified the user of the invalid activity code in one of their time log entries and came to a halt.

Check for Missing Notes for Activity Code "D" in the Time Entries of 'LastnameFirstnameLog.csv' File

Tester:
Tony Matthews
Date:
10/16/2024
Time:
16:49
Test Description:
Testing for missing notes when the activity code is "D" in one of the time entries within the user's file.
Expected Result:
The program should notify the user that the notes is missing in one of the time entries when the activity code is "D" and come to a halt.
Input:
No notes:
Matthews, Tony
CS 4500
10/07/2024,14:08,14:09,1,D
Output:
Error: Missing note for activity code 'D' in the time log entry in file MatthewsTonyLog.csv at line 3
Result Status:
Success
Result Description:
The program notified the user of the missing note in one of their time log entries and came to a halt.

Check for Invalid Notes for Activity Code "D" in the Time Entries of 'LastnameFirstnameLog.csv' File

Tester:
Tony Matthews
Date:
10/16/2024
Time:
16:52
Test Description:
Testing for invalid notes when the activity code is "D" in one of the time entries within the user's file. In this case, only notes greater than 80 characters will be tested because extra commas were already accounted for in prior tests.
Expected Result:
The program should notify the user that the notes is invalid in one of the time entries when the activity code is "D" and come to a halt.
Input:
Notes with eighty characters:
Matthews, Tony
CS 4500
10/07/2024,14:08,14:09,1,D,Read boooooooooooooooooooooooooooooooooooo
Output:
Error: Invalid note format in the time log entry in file MatthewsTonyLog.csv at line 3
Result Status:
Success
Result Description:

The program notified the user of the invalid note in one of their time log entries and came to a halt.

Check for Invalid Notes for Activity Code That Isn't "D" in the Time Entries of 'LastnameFirstnameLog.csv' File

Tester:
Tony Matthews
Date:
10/16/2024
Time:
16:58
Test Description:
Testing for invalid notes when the activity code is not "D" in one of the time entries within the user's file. In this case, only notes greater than 80 characters will be tested because extra commas were already accounted for in prior tests.
Expected Result:
The program should notify the user that the notes is invalid and come to a halt.
Input:
Notes with eighty characters:
Matthews, Tony
CS 4500
10/07/2024,14:08,14:09,1,D,Read boooooooooooooooooooooooooooooooooooo
Output:
Error: Invalid note format in the time log entry in file MatthewsTonyLog.csv at line 3
Result Status:
Success
Result Description:

The program notified the user of the invalid note in one of their time log entries and came to a halt.

Check for Valid 'LastnameFirstnameLog.csv' File

Tester:
Tony Matthews
Date:
10/16/2024
Time:
17:00
Test Description:
Testing for log file with all valid entries.
Expected Result:
The program should determine that the log file is valid and output a report based on the number of minutes spent on each activity code. It should also create a file named "Lastname" + "Firstname" + "LogReport.txt" with the same output.
Input:
MatthewsTonyLog.csv:
Matthews, Tony
CS 4500
10/16/2024,15:05,15:07,1,0,Read book
10/17/2024,15:05,15:08,1,1,Studied practice quiz
10/18/2024,15:08,16:08,1,8,Wrote tests for program B
Output:
Console output:
Success: Valid log file detected.
Name: Tony Matthews
Class: CS 4500

ACTIVITY

CODE MINUTES MEANING

0: 0002 Reading Canvas site or textbook

1: 0003 Studying using a practice quiz

2: 0000 Taking a scoring quiz

3: 0000 Participating in a Canvas discussion, DX

4: 0000 Meeting with your team

5: 0000 Working on documentation

6: 0000 Working on designs

7: 0000 Programming

8: 0060 Working on a test plan or doing testing

am meeting)

B: 0000 Working on a mini-lecture video or reading

C: 0000 Viewing a video or website that is not a mini-lecture, but relevant to the course

D: 0000 Other

Report has been written to MatthewsTonyLogReport.txt

Goodbye!

MatthewsTonyLogReport.txt output:

Name: Tony Matthews

Class: CS 4500

ACTIVITY

CODE MINUTES MEANING

0: 0002 Reading Canvas site or textbook

1: 0003 Studying using a practice quiz

2:	0000	Taking a scoring quiz
3:	0000	Participating in a Canvas discussion, DX
4:	0000	Meeting with your team
5:	0000	Working on documentation
6:	0000	Working on designs
7:	0000	Programming
8:	0060	Working on a test plan or doing testing
9:	0000	Studying for the final exam
A:	0000	Conferring with the instructor (outside team meeting)
B:	0000	Working on a mini-lecture video or reading
C:	0000	Viewing a video or website that is not a mini-lecture, but relevant to the course
D:	0000	Other

Result Status:

Success

Result Description:

The program outputted a report of the minutes spent on each activity code to the screen as well as generated a text file with the same output.