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# PHASE 2, PROGRAM A TESTING PLAN DOCUMENT

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**Course:** CMP SCI 4500-001

**Group Number:** 10

**People Working on Program:** Tony Matthews

**Revision History:**

1. 10/07/2024 – Document creation

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## Testing Plan List

### Check For Log Files That Match “XLog.csv” Pattern

**Tester:**

Tony Matthews

**Date:**

10/07/2024

**Time:**

11:26

**Test Description:**

Check for log files that match the specified “XLog.csv” pattern.

**Expected Result:**

The program will identify files that match the pattern "XLog.csv" as valid log files and inform the user of their validity.

**Input:**

Log.csv

XLog.csv

test.csv

MatthewsTony.csv

123.csv

Log.txt

Log.csvx

file name.csv

@Log.csv

**Output:**

Valid log file found: Log.csv

Valid log file found: XLog.csv

Valid log file found: test.csv

Valid log file found: FileName.csv

**Result Status:**

Success

**Result Description:**

The program recognized the files matching the pattern "XLog.csv" and informed the user of their validity.

## Have No Log Files That Match “XLog.csv” Pattern

**Tester:**

Tony Matthews

**Date:**

10/07/2024

**Time:**

11:41

**Test Description:**

Have no log files that match the specified “XLog.csv” pattern.

**Expected Result:**

The program will notify the user of having no valid log files in the current directory and come to a halt.

**Input:**

123.csv

Log.txt

Log.csvx

file name.csv

@Log.csv

**Output:**

No valid log files found in the current directory.

**Result Status:**

Success

**Result Description:**

The program notified the user of having no valid log files in the current directory and came to a halt.

## Check For Empty Log File

**Tester:**

Tony Matthews

**Date:**

10/07/2024

**Time:**

11:51

**Test Description:**

Have an empty log file that matches the "XLog.csv" pattern.

**Expected Result:**

The program will notify the user of its emptiness on the screen and on the "ValidityChecks.txt" file.

**Input:**

XLog.csv: [Empty log file]

**Output:**

Error: Log file is empty in file XLog.csv at line 0

**Result Status:**

Success

**Result Description:**

The program notified the user its emptiness.

## Check For Valid First Line

**Tester:**

Tony Matthews

**Date:**

10/07/2024

**Time:**

11:58

**Test Description:**

Have multiple log files that have valid/invalid first lines.

**Expected Result:**

The program will notify the user of the invalidity of the log files with invalid first lines.

**Input:**

ValidLog.csv:

Matthews,Tony

MissingCommaLog.csv:

Matthews Tony

MissingFirstName.csv:

Matthews,

MissingLastName.csv:

,Tony

**Output:**

Error: Invalid format in the first line of the log file in file MissingCommaLog.csv at line 1

Error: Invalid format in the first line of the log file in file MissingFirstName.csv at line 1

Error: Invalid format in the first line of the log file in file MissingLastNameLog.csv at line 1

ValidLog.csv is a valid time log file

**Result Status:**

Success

**Result Description:**

The program notified of the invalid format for the first line of the log files.



## Check For Valid Second Line

**Tester:**

Tony Matthews

**Date:**

10/07/2024

**Time:**

12:09

**Test Description:**

Have multiple log files that have valid/invalid second lines.

**Expected Result:**

The program will notify the user of the invalidity of the log files with invalid second lines.

**Input:**

ValidLog.csv:

Matthews,Tony

CS 4500

InvalidIDLog.csv:

Matthews,Tony

CS 4501

NoIDLog.csv:

Matthews,Tony

**Output:**

Error: Invalid class ID in the second line of the log file in file InvalidIDLog.csv at line 2

Error: Unable to read the second line of the log file in file NoIDLog.csv at line 2

ValidLog.csv is a valid time log file

**Result Status:**

Success

**Result Description:**

The program notified the user of the invalid format for the second line of the log files.

## Check For No Additional Lines

**Tester:**

Tony Matthews

**Date:**

10/07/2024

**Time:**

12:17

**Test Description:**

Check for a log file with only 2 lines.

**Expected Result:**

The program will notify the user that all files have been processed and output a goodbye message.

**Input:**

TwoLinesLog.csv:

Matthews,Tony

CS 4500

**Output:**

TwoLinesLog.csv is a valid time log file

All log files have been processed. Goodbye!

**Result Status:**

Success

**Result Description:**

The program notified the user that all files have been processed and outputted a goodbye message.

## Check For Valid Number of Items Per Additional Line

**Tester:**

Tony Matthews

**Date:**

10/07/2024

**Time:**

12:38

**Test Description:**

Check for log files with valid/invalid number of items per additional line.

**Expected Result:**

The program will notify the user of the invalid number of items per additional line.

**Input:**

InvalidItemsLog.csv:

Matthews,Tony

CS 4500

10/07/2024,12:23,12:24

FiveItemsLog.csv:

Matthews,Tony

CS 4500

10/07/2024,12:23,12:24,1,0

SixItemsLog.csv:

Matthews,Tony

CS 4500

10/07/2024,12:23,12:24,1,0,Read book

**Output:**

Error: Invalid number of items in the time log entry in file InvalidItemsLog.csv at line 3

FiveItemsLog.csv is a valid time log file

SixItemsLog.csv is a valid time log file

**Result Status:**

Success

**Result Description:**

The program notified the user of all files with an invalid number of items per additional line.

## Check For Valid Date

**Tester:**

Tony Matthews

**Date:**

10/07/2024

**Time:**

13:24

**Test Description:**

Check for log files with valid/invalid dates.

**Expected Result:**

The program will notify the user of the invalid dates.

**Input:**

NoDateLog.csv:

Matthews,Tony

CS 4500

October,13:24,13:25,1,0

NonExistentDateLog.csv:

Matthews,Tony

CS 4500

10/32/2024,13:24,13:25,1,0

ValidDateLog.csv:

Matthews,Tony

CS 4500

10/07/2024,13:24,13:25,1,0

**Output:**

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

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

ValidDateLog.csv is a valid time log file

**Result Status:**

Success

**Result Description:**

The program notified the user of all files with invalid dates.

## Check For Valid Time Format

**Tester:**

Tony Matthews

**Date:**

10/07/2024

**Time:**

13:40

**Test Description:**

Check for log files with valid/invalid times.

**Expected Result:**

The program will notify the user of the invalid times.

**Input:**

ValidTimeLog.csv:

Matthews,Tony

CS 4500

10/07/2024,13:42,13:43,1,0

InvalidTimeFormatLog.csv:

Matthews,Tony

CS 4500

10/07/2024,13-42,13:43,1,0

InvalidTimeLog.csv:

Matthews,Tony

CS 4500

10/07/2024,13:42,13:60,1,0



EmptyStartingTimeLog.csv:

Matthews,Tony

CS 4500

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

EmptyEndingTimeLog.csv:

Matthews,Tony

CS 4500

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

**Output:**

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

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

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

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

ValidTimeLog.csv is a valid time log file

**Result Status:**

Success

**Result Description:**

The program notified the user of all files with invalid times.

## Check For Negative Time Difference

**Tester:**

Tony Matthews

**Date:**

10/07/2024

**Time:**

13:52

**Test Description:**

Check for log files with a negative time difference.

**Expected Result:**

The program will notify the user of the negative time differences.

**Input:**

NegativeTimeDifferenceLog.csv:

Matthews,Tony

CS 4500

10/07/2024,13:56,13:55,1,0

**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 all files with negative time differences.

## Check For Time Difference Greater Than 4 Hours

**Tester:**

Tony Matthews

**Date:**

10/07/2024

**Time:**

13:59

**Test Description:**

Check for log files with a time difference greater than 4 hours.

**Expected Result:**

The program will warn the user of the time differences greater than 4 hours.

**Input:**

GreaterThanFourHoursLog.csv:

Matthews,Tony

CS 4500

10/07/2024,14:00,18:01,1,0

**Output:**

Warning: Duration exceeds 4 hours in the time log entry in file GreaterThanFourHoursLog.csv at line 3

GreaterThanFourHoursLog.csv is a valid time log file

**Result Status:**

Success

**Result Description:**

The program warned the user of the time differences greater than 4 hours.

## Check For Valid Number of People

**Tester:**

Tony Matthews

**Date:**

10/07/2024

**Time:**

14:06

**Test Description:**

Check for log files with valid/invalid number of people.

**Expected Result:**

The program will give the user an error message for every log file detected with an invalid number of people.

**Input:**

InRangeNumberLog.csv:

Matthews,Tony

CS 4500

10/07/2024,14:08,14:09,1,0

OutOfRangeNumberLog.csv:

Matthews,Tony

CS 4500

10/07/2024,14:08,14:09,0,0

NonNumericNumberLog.csv:

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 NonNumericNumberLog.csv at line 3

Error: Invalid number of people in the time log entry in file OutOfRangeNumberLog.csv at line 3

InRangeNumberLog.csv is a valid time log file

**Result Status:**

Success

**Result Description:**

The program gave the user an error message for every log file detected with an invalid number of people.

## Check For Valid Activity Code

**Tester:**

Tony Matthews

**Date:**

10/07/2024

**Time:**

14:23

**Test Description:**

Check for log files with valid/invalid activity codes.

**Expected Result:**

The program will give the user an error message for every log file detected with an invalid activity code.

**Input:**

ValidActivityCodeLog.csv:

Matthews,Tony

CS 4500

10/07/2024,14:08,14:09,1,0

InvalidActivityCodeLog.csv:

Matthews,Tony

CS 4500

10/07/2024,14:08,14:09,1,E

InvalidLengthActivityCode.csv:

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 InvalidActivityCodeLog.csv at line 3

Error: Invalid activity code in the time log entry in file InvalidLengthActivityCodeLog.csv at line 3

ValidActivityCodeLog.csv is a valid time log file

**Result Status:**

Success

**Result Description:**

The program gave the user an error message for every log file detected with an invalid activity code.

## Check For Valid Notes for Activity That Isn't "Other"

**Tester:**

Tony Matthews

**Date:**

10/07/2024

**Time:**

14:28

**Test Description:**

Check for log files with correct note format for activity that is other.

**Expected Result:**

The program will give the user an error message for every log file detected with an invalid note format.

**Input:**

ValidNotesLog.csv:

Matthews,Tony

CS 4500

10/07/2024,14:08,14:09,1,D,Read book

CommaMiddleNotesLog.csv:

Matthews,Tony

CS 4500

10/07/2024,14:08,14:09,1,D,Read,book

CommaEndNotesLog.csv:

Matthews,Tony

CS 4500

10/07/2024,14:08,14:09,1,D,Read book,



EightyCharacterNotesLog.csv:

Matthews, Tony

CS 4500

10/07/2024,14:08,14:09,1,D,Read

[illegible]

NoNotesLog.csv:

Matthews, Tony

CS 4500

10/07/2024,14:08,14:09,1,D

**Output:**

Error: Trailing comma at end of line in file CommaEndNotesLog.csv at line 3

Error: Invalid number of items in the time log entry in file CommaMiddleNotesLog.csv at line 3

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

Error: Missing note for activity code 'D' in the time log entry in file NoNotesLog.csv at line 3

ValidNotesLog.csv is a valid time log file

**Result Status:**

## Success

**Result Description:**

The program gave the user an error message for every log file detected with invalid notes or non-existent notes.

## Check For No Notes/Invalid Notes for Activity That Is “Other”

**Tester:**

Tony Matthews

**Date:**

10/07/2024

**Time:**

14:46

**Test Description:**

Check for log files with correct note format.

**Expected Result:**

The program will give the user an error message for every log file detected with an invalid note format.

**Input:**

ValidNotesLog.csv:

Matthews,Tony

CS 4500

10/07/2024,14:08,14:09,1,0,Read book

CommaMiddleNotesLog.csv:

Matthews,Tony

CS 4500

10/07/2024,14:08,14:09,1,0,Read,book

CommaEndNotesLog.csv:

Matthews,Tony

CS 4500

10/07/2024,14:08,14:09,1,0,Read book,

EightyCharacterNotesLog.csv:

Matthews, Tony

CS 4500

10/07/2024,14:08,14:09,1,0,Read

```
b0000000000000000000000000000000000000000000000000000000000000000  
000000000000000000000000000000000000000000k
```

**Output:**

Error: Trailing comma at end of line in file CommaEndNotesLog.csv at line 3

Error: Invalid number of items in the time log entry in file CommaMiddleNotesLog.csv at line 3

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

ValidNotesLog.csv is a valid time log file

**Result Status:**

## Success

**Result Description:**

The program gave the user an error message for every log file detected with invalid notes.