Test Documentation

Group – 9

Team Members

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Program B test documentation  
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CS 4500-INTRODUCTION TO SOFTWARE PROFESSION

Test Plan for Phase 1- Time Entry Log Program

Date: 09/20/2024

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| Version Number | Date | Description | Author Name |
| 1.0 | 09/20/2024 | Initial test plan | Alewiya Duressa |
|  |  |  |  |
| 1.1 | 09/23/2024 | After bug fixed | Alewiya Duressa |

Program B

Objective: Test cases will be written to validate the functionality of the Time entry log program to ensure it meets the requirements.

The test log file named " DuressaAlewiyaLog.csv" is located in the same directory as the executable.

bin/Debug/net 6.0/DuressaAlewiyaLog.csv

Tested By: Alewiya Duressa

**Test 0**: Program shows the summary of what it does

Test step: open the CMD window and navigate to project directory, then put the below command to run the application.

Input: dotnet run Group 9 Phase 1 Program B.exe

Expected Outcome: This program is time logging tool that allows users to track time spent on different activities for CS 4500 class.

The program enables user to start and stop a virtual clock, and it automatically logs the activity details into a CSV file, including the start and end times, the number of people involved, the activity Code, and optional notes.

Press Enter to Proceed:

Actual Outcome: This program is a time logging tool that allows users to track time spent on different activities for CS 4500 class.

The program enables user to start and stop a virtual clock, and it automatically logs the activity details into a CSV file, including the start and end times, the number of people involved, the activity Code, and optional notes.

Press Enter to Proceed:

Status: Passed

Date: 09/22/2024

**Test 1:** Verify log file.

**Test case 1.0**: The CSV format log file exists in the same directory as the .exe file

Input: bin/Debug/net 6.0/DuressaAlewiyaLog.csv

Expected Outcome: File Located successfully!

Actual Outcome: File Located successfully!

Status: Passed Date: 09/22/2024

**Test case 1.1**: Multiple files with the same format

Test step: create another C file with the same format in the debug/net 6.0 directory

Input: bin/Debug/net.60 /DuressaAlewiyaLog.csv, LastnameFirstNameLog.csv

Expected Outcome: Error: More than one file matches the pattern. Please ensure there's only one.

Actual Outcome: Error: More than one file matches the pattern. Please ensure there's only one.

Status: Passed

Date: 09/22/2024

Tested By: Alewiya Duressa

**Test case 1.2**: No file matches the pattern in the directory

Test step: remove the test.csv file from bin/Debug/net.60 /

Input: bin/Debug/net.6.0 /

Expected Outcome: Error: No log file found matching the required pattern.

Actual Outcome: Error: No log file found matching the required pattern.

Status: Passed

Date: 09/22/2024

**Test case 1.3:** Open test file

Test step1: Update the test file to contain extra commas

Input: bin/Debug/net.6.0 /DuressaAlewiyaLog.csv

Expected Outcome: Error: Log file is not in the correct format.

Actual Outcome: Error: Log file is not in the correct format.

Status: Passed

Date: 09/22/2024

Tested By: Alewiya Duressa

Test step 2: Update the test file to contain only Lastname one data for the first line

Input: bin/Debug/net.6.0 /DuressaAlewiyaLog.csv

Expected Outcome: Error: Each line must contain at least two data items.

Actual Outcome: Error: Each line must contain at least two data items.

Status: Passed

Tested By: Alewiya Duressa

Date: 09/22/2024

Test step 3: Update the test file to have the correct format.

Input: bin/Debug/net.6.0 /DuressaAlewiyaLog.csv

Expected Outcome: file opened

Actual Outcome: The file opened successfully and activitycode list showed

Status: Passed

Date: 09/22/2024

Tested By: Alewiya Duressa

**Test 2: activity code**

**Test case 2.0: Activity code selected from the list**

Input: 3

Expected Outcome: activity code saved successfully.

Actual Outcome: activity code was saved successfully and asked user to enter the number of participants

Status: Passed

Date: 09/23/2024

Tested By: Alewiya Duressa

**Test case 2.1**: Select activity code not in the list

Input: 45

Expected Outcome: Invalid activity code. Please select the correct activity code again.

Actual Outcome: Invalid activity code message and showed the select activity code again.

Status: Passed

**Test 3:** Allow the user to enter the number of People Involved

**Test case 3.0:** Enter the participants

Test step 1: enter the number of participants < 1

Input: 0

Expected Outcome: Invalid number of people. Please enter a number between 1 and 50.

Actual Outcome: Invalid number of people message and prompted user to enter again

Status: Passed

Test step 2: enter number of participant > 50

Input: 55

Expected Outcome: Invalid number of people. Please enter a number between 1 and 50.

Actual Outcome: Invalid number of people message and prompted user to enter again

Status: Passed

Date: 09/23/2024

Tested By: Alewiya Duressa

**Test 4:** Test Note

Test step: Selecting Activity Code type “Other/ D” from the list

Input: D/d

Expected Outcome: prompt the user to enter note.

**Test case 4:** Enter Note

Test step 1: enter a note that contains a comma

Input: Testing1, and testing 2

Expected Outcome: Display Invalid note error message.

Actual Outcome: Invalid note. Ensure it's under 80 characters and contains no commas, and prompt the user to enter the note again.

Status: Passed

Test step 2: enter a note that have more than 80 characters

Input: test test test tttttttttttttttttttttttttttttttttttttttttttttttttttttttttttttttttt test test tets

Expected Outcome: Display an Invalid note error message.

Actual Outcome: Invalid note. Ensure it's under 80 characters and contains no commas and prompt the user to enter the note again.

Status: Passed

Date: 09/23/2024

Tested By: Alewiya Duressa

**Test 5**: Ensure time logged correctly

**Test case 5.0:**  Set StartTime

Input: No input from the user starting the program and entering the required field initiates this.

Expected Outcome: show message with the time started and set the Start Time value

Actual Outcome: Display a message and the time started. The stat Time value was updated to now().

**Test case 5.1:**  Set EndTime

Test step 1: The user pressed enter key and confirmed finished working on activity

Input: Y.

Expected Outcome: show a confirmed message and set the End Time value to now

Actual Outcome: Displayed Activity confirmed as finished and End Time value set

Status: Passed

Date: 09/23/2024

Tested By: Alewiya Duressa

**Test case 5.2**: Validate log entry spanning midnight

Test step: The system provides Start and End time

Input: 09/23/2024 22:00 , 09/24/2024 1:30

Expected Outcome: Two entry added to the log file

Actual outcome: two entries were added to the DuressaAlewiyaLog.csv fil. first one with the start date, and start time, end time, participant number, & activityCode, and the second entry doesn’t have the correct date.

Status: Failed

Date: 09/22/2024

Tested By: Alewiya Duressa

**Test Case 6**: Verify final log confirmation message

Test step: once the user confirms that he/she finished the activity.

Input: Y/y.

Expected Outcome: Prompt message to the user that a successfully logged the activity.

Actual Outcome: Displayed this message Your log entry has been added. Thank you!

Status: Passed

Date: 09/22/2024

Tested By: Alewiya Duressa

**Test case 7:** Ensure all information for activity added in a new entry to the log file

Input: open DuressaAlewiya.csv file

Expected outcome: new line with the date, start time, end time, participant number, activity code, and note

Actual outcome: new entry added for the activity the user worked on with wrong date

Status: Failed

Retested on 09/23/2024

Tested By: Alewiya Duressa

**Test case 5.2.1**: Validate log entry spanning midnight

Test step: The system provides Start and End time

Input: 09/23/2024 22:00 , 09/24/2024 1:30

Expected Outcome: Two entry added to the log file

Actual outcome: Two entries were added to the DuressaAlewiyaLog.csv fil. first one with the start date, and start time, end time, participant number, & activityCode, and the second entry with accurate date, start Time : 00:00, endTime, and the other values

Status: Passed

Date: 09/23/2024

Tested By: Alewiya Duressa

**Test case 7.0.1:** Ensure all information for activity is added in a new entry to the log file

Input: open DuressaAlewiya.csv file

Expected outcome: new line with the date, start time, end time, participant number, activity code, and note

Actual outcome: new entry added for the activity the user worked on containing accurate information for date and all lines.

Status: Passed

Date: 09/23/2024

Tested By: Alewiya Duressa