Software Engineering Group Project 10 - Project Test Report

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1.1 MODULE TEST RESULTS

Module (being tested)	Method (being tested)	Pass or Fail
Exercise.java	Exercise()	Pass
Exercise.java	getName()	Pass
Exercise.java	getDescription()	Pass
Exercise.java	getExerciseID()	Pass
Exercise.java	getExerciseVideoFile()	Pass
Exercise.java	getExerciseType()	Pass
WorkoutRoutinesConfig.java	WorkoutRoutinesConfig()	Pass
WorkoutRoutinesConfig.java	getExercises()	Pass
WorkoutRoutinesConfig.java	setExercises()	Pass
WorkoutRoutinesConfig.java	getWorkTime()	Pass
WorkoutRoutinesConfig.java	setWorkTime()	Pass
WorkoutRoutinesConfig.java	getRestTime()	Pass
WorkoutRoutinesConfig.java	setRestTime()	Pass
WorkoutRoutinesConfig.java	getMidRestTime()	Pass
WorkoutRoutinesConfig.java	setMidRestTime()	Pass
WorkoutRoutinesConfig.java	getWorkoutID()	Pass
WorkoutRoutinesConfig.java	setWorkoutID()	Pass

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1.1 SYSTEM TEST RESULTS

Test Ref	*Req Being Tested*	*Test Content*	*Input*	*Output*	*Pass Criteria*	*Pass or Fail*
SE-F-001	FR 1	Check if the right screen is displayed when the application opens.	Start up the application	Start up displays	Screen displays correctly	Pass
SE-F-002	FR 1	Check that pre-configured exercise descriptions are displayed correctly	Left click on "Choose pre-configured workout" and look at how the descriptions are formatted	Screen displays description as "X Exercises; X Sec work; X Sec rest; X Min Midway rest" for each entry	Descriptions are all displayed in the correct format	Pass
SE-F-003	FR 1	Check the system can start with a pre-configured set of exercises	Left click on the first beginner workout ("10 Exercises; 20 Sec work; 20 Sec rest; 2 Min Midway rest")	Screen transitions to exercise overview and choosing whether to start or change selected workout	Confirmation screen (FR 3) appears within 1 second of input with selected beginner choice	Pass

SE-F-004	FR 3	Test functionality of return button	Left click on the button labeled "Select/ Create a different set of exercises" then "Back"	Screen will transition back start-up	Workout selection screen (FR 1) appears again within 1 second of input	Pass
SE-F-005	FR 1	Check the system can start with a user-configured set of exercises	Left click on the button labeled "Configure your own workout"	Screen transitions to configuring a set of exercises	Configuration screen (FR 2) begins 1 second of input	Pass
SE-F-006	FR 2	Test default value of configuration setting, 'Number of exercises'	Leave the slider "How many exercises?" in its default position	Configuration slider will display "15"	Number of exercises is set to 15	Pass
SE-F-007	FR 2	Test maximum boundary of configuration setting, 'Number of exercises'	Drag the slider "How many exercises?" as far right as possible	Configuration slider will move as far as the right boundary and display "30"	Number of Exercises is set to 30	Pass

SE-F-008	FR 2	Test minimum boundary of configuration setting, 'Number of exercises'	Drag the slider "How many exercises?" as far left as possible	Configuration slider will move as far as the left boundary and display "2"	Number of Exercises is set to 2	Pass
SE-F-009	FR 2	Test default value of configuration setting, 'Length of exercise time'	Leave the slider "Working time per exercise?" in its default position	Configuration slider will display "2:25"	Length of exercise time is set to "2:25"	Pass
SE-F-010	FR 2	Test maximum boundary of configuration setting, 'Length of exercise time'	Drag the slider "Working time per exercise?" as far right as possible	Configuration slider will move as far as the left boundary and display "5:00"	Length of exercise time is set to "5:00"	Pass
SE-F-011	FR 2	Test minimum boundary of configuration setting, 'Length of exercise time'	Drag the slider "Working time per exercise?" as far left as possible	Configuration slider will move as far as the left boundary and display "0:10"	Length of exercise time is set to "0:10"	Pass

SE-F-012	FR 2	Test default value of configuration setting, 'Time between exercises'	Leave the slider "Resting time per exercise?" in its default position	Configuration slider will display "2:25"	Length of time between exercises is set to "2:25"	Pass
SE-F-013	FR 2	Test maximum boundary of configuration setting, 'Time between exercises'	Drag the slider "Resting time per exercise?" as far right as possible	Configuration slider will move as far as the right boundary and display "5:00"	Length of time between exercises is set to "5:00"	Pass
SE-F-014	FR 2	Test minimum boundary of configuration setting, 'Time between exercises'	Drag the slider "Resting time per exercise?" as far left as possible	Configuration slider will move as far as the left boundary and display "0:10"	Length of time between exercises is set to "0:10"	Pass
SE-F-015	FR 2	Test default value of configuration setting, 'Duration of pause in the middle'	Leave the slider "Rest time halfway through exercises?" in its default position	Configuration slider will display "5:00"	Length of middle pause is set to "5:00"	Pass

SE-F-016	FR 2	Test maximum boundary of configuration setting, 'Duration of pause in the middle'	Drag the slider "Rest time halfway through exercises?" as far left as possible	Configuration slider will move as far as the right boundary and display "10:00"	Length of middle pause is set to "10:00"	Pass
SE-F-017	FR 2	Test minimum boundary of configuration setting, 'Duration of pause in the middle'	Drag the slider "Rest time halfway through exercises?" as far left as possible	Configuration slider will move as far as the left boundary and display "0:00"	Length of middle pause is set to "0:00"	Pass
SE-F-018	FR 3	Test functionality of the start workout button with the configured workout	Left click button labeled "Start Workout"	Screen will transition to warm up	Warm-Up (FR 4) begins within 1 second of input	Pass
SE-F-019	FR 9	Check the functionality of the pause button during warm-up	When the warm up begins, press the pause button and ensure the timer stops by waiting 5 seconds. Then press it again to resume	Warm up instructions freeze at "3:00 left" and not carry on until resume is pressed	Warm-up instructions pause completely, and the program does not advance until the user resumes it. Response to button click occurs within 1 second both times	Pass
SE-F-020	FR 4	Checks that the warm-up will begin after FR3 and will run for 3 minutes	Wait for 3 minutes (No user input needed)	Warm up instructions display and run for allotted time	Appendix # 01 & # 02	Pass

SE-F-021	FR 9	Check the functionality of the pause button mid exercise	When the exercise starts press the pause button and ensure the timer stops by waiting 5 seconds. Then press it again to resume	On screen exercise timer will pause on-screen at "0:10" and not carry on until resume is pressed	The timer pauses completely, and the program does not advance until the user resumes it Response to button click occurs within 1 second both times	Pass
SE-F-022	FR 5	Check that exercise will begin after FR4 and will run for 10 seconds	Wait for 10 seconds (No user input needed)	Exercise instructions display and run for allotted time	FR 5 begins within 1 second of FR 4 finishing.	Pass
SE-F-023	FR 9	Check the functionally of the pause button during normal rest	When the between exercises rest starts press the pause button and ensure the timer stops by waiting 5 seconds. Then press it again to resume	On screen exercise timer will pause on-screen at "0:10" and not carry on until resume is pressed	The timer pauses completely, and the program does not advance until the user resumes it Response to button click occurs within 1 second both times	Pass
SE-F-024	FR 5	Check that between exercises there is a normal rest period.	Wait for 10 seconds (No user input needed)	Rest will display for allotted time	Appendix # 02	Pass

SE-F-025	FR 9	Check the functionally of the pause button during cooldown phases	When the cooldown starts press the pause button and ensure the timer stops by waiting 5 seconds. Then press it again to resume	On screen exercise timer will pause on-screen at "3:00" and not carry on until resume is pressed	The timer pauses completely, and the program does not advance until the user resumes it Response to button click occurs within 1 second both times	Pass
SE-F-026	FR 6	Checks that the cooldown sequence of 3 minutes completes	Wait for 3 minutes (No user input needed)	Cooldown sequence begins	Cooldown sequence lasts 3 minutes then ends.	Pass
SE-F-027	FR 7	Checks that a guide for each exercise is displayed during warm-up.	Warm-up begins. (No user input needed).	A screen displaying a diagram on how to carry out the exercise appears.	Diagram guide displayed with an image instructing the exercise.	Pass
SE-F-028	FR 7	Checks that a guide for each exercise is displayed during cool-down.	Cool-down begins. (No user input needed).	A screen displaying a diagram on how to carry out the exercise appears.	Diagram guide displayed with an image instructing the exercise.	Pass
SE-F-029	FR 7	Checks that a video guide for each exercise is displayed during pausing.	Users select the pause function (button - mouse click or keyboard shortcut).	A screen displaying a Video on how to carry out the exercise appears.	Video guide displayed with an image instructing the exercise.	Pass

SE-F-030	FR 8	Check that times are present on warm-up and cool-down screens.	Timer starts and finishes. (No user input needed).	Time should be displayed visibly with a sound notifying the starting and finishing of the warm-up and cool-down.	Timer should be visible to the user and sounds should work when warm-up and/or cool-down finishes.	Pass
SE-F-031	FR 8	Check that times are present during exercises and when exercises are paused.	Timer starts and finishes. (No user input needed).	Time should be displayed visibly with a sound notifying the user of the starting and how long is left until finishing an exercise.	Timer should be clearly visible to the user. Following with a 5 Countdown sound for when an exercise will begin and end.	Pass
SE-F-032	FR 8	Check that times are present when exercises are paused.	User selects the pause function. (button - mouse click or keyboard shortcut).	Time should be displayed visibly with a sound notifying the user of the starting and how long is left until finishing an exercise.	Timer should be clearly visible to the user, showing them how long left of the exercise and of the pause break.	Pass

SE-F-033	FR 8	Checks that the progress of the workout is shown.	Workout starts (No user input needed).	A progress counter should be visibly shown under the guide of each exercise.	Counter of the exercises clearly visible to the user, stating what number exercise they're on. Appendix # 06.	Pass
SE-F-034	FR 5	Check the system can run 30 exercises	After the cooldown has finished, choose "Configure your own workout" and set all the sliders to their minimum value again, except "Number of exercises", which you set to 30 (max)	30 different exercises running sequentially with a counter to indicate the number of exercises and how many have been completed.	Appendix # 03 & # 06	Pass

| SE-F-035 | FR 10 | Check that workouts are saved and displayed properly | After cooldown has finished, click the text "Previous Workouts" then view past workouts and confirm whether the displayed workouts match the exercises that were run while testing the program | The program should display the exercises run during testing | The workout data is accurate and displayed in the reverse-chronological order | Pass |

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1.2 CRITERIA APPENDIX

Appendix #.	Pass criteria reference.
# 01	Warm up must be 3 minutes long, with an appropriate countdown timer.
# 02	Clock must count down from the max time length of each activity without skipping any time, and stop the timer when it reaches 0.
# 03	Exercise counters must display the correct number of different exercises in the whole workout.
# 04	Rest times between exercises must run for 10 seconds, with an appropriate countdown timer.
# 05	Timer pauses upon button press & displayed time does not go down.
# 06	All exercises should run sequentially from the warm-up until the cool-down with no stoppage unless the user pauses.

REFERENCES

[1] \gp10\docs\testreport\Module tests\2021-04-30_v_1_module_test_report.txt

[2] \gp10\docs\testreport\System tests\2021-05-04_v_1_system_test_report.txt

DOCUMENT HISTORY

Version	CCF No.	Date	Changes made to document	Changed by
1.0	N/A	04/05/21	N/A - Original	Bas22/Ahz1