Test Case Specification
December 16, 2019

COMP 442 - Section 001

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Version History

Version	Date	Name	Description
1	11/10/19	Daniel Kotlinski	Initial Document
2	12/10/19	Daniel Kotlinski	Test cases that were initially missing from the original project, including: wilks calculator
3	12/11/19	Daniel Kotlinski	Additional test cases to Wilks Calculator; return wrong gender.
4	12/15/19	Daniel Kotlinski	Added class, weight visualizer and proper test cases

1   Introduction

This document provides the test cases for the Powerlifting Toolkit application. All major components of code, including one rep max calculator, pounds to kilograms, kilograms to pounds, wilks calculator, and weight visualizer will be tested and documented, relaying their specific inputs and outputs.

2   Test Cases: One Rep Max Calculator

Test ID	1.0
Title	One rep max
Feature	Calculate one rep max
Objective	Confirm the right numbers have been selected to accurately find a one rep max.
Test Data	Weight lifted Repetitions completed
Test Actions	1. Start One Rep Max Calculator 2. Enter weight lifted 3. Enter repetitions completed 4. Press button
Expected Results	System displays an accurate one rep max based on the given test data.

Test ID	1.1
Title	Invalid Weight
Feature	Return an error if weight is incorrect
Objective	Confirm that if weight is unacceptable (i.e 0 lbs), return an error and have user try again.
Test Data	Weight lifted
Test Actions	1. Start One Rep Max Calculator 2. Enter weight lifted 3. Press button
Expected Results	System displays an error if given unsatisfiable weight input.

Test ID	1.2
Title	Invaild Reps
Feature	Return an error if repetitions are incorrect
Objective	Confirm that if repetitions are unacceptable (i.e 0 lbs), return an error and end application.
Test Data	Repetitions completed
Test Actions	1. Start One Rep Max Calculator 2. Enter repetitions completed 3. Press button
Expected Results	System displays an error if given

	unsatisfiable repetition input.

3 Test Cases: Wilks Calculator

Test ID	2.0
Title	Wilks Calculator
Feature	Calculate lifters wilks
Objective	Take user data to accurately create a wilks
Test Data	Gender Body Weight Weight lifted
Test Actions	1. Start calculate wilks 2. Enter test data 3. Press button
Expected Results	System displays proper wilks score for the lifter.

Test ID	2.1
Title	Gender
Feature	Select appropriate gender
Objective	Confirm gender as male or female, if not male or female, return an error.
Test Data	gender
Test Actions	1. Start calculate wilks 2. Enter gender

	3. Press button
Expected Results	System displays an error if given unsatisfiable gender input.

4 Test Cases: Weight Visualizer

Test ID	3.0
Title	Enter A Weight
Feature	Display correct colored plates
Objective	User input takes in a weight and should display the correct colored plates that add up to the specific weight.
Test Data	Weight lifted
Test Actions	1. Enter a weight 2. Click button to run calculation
Expected Results	System returns display of colored bars representing their respective plates.