

Test Case Specification

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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: Attempt, Judge, Lifter
3	12/11/19	Daniel Kotlinski	Additional test cases to Wilks Calculator; return wrong gender.

1 Introduction

This document provides the test cases for the Powerlifting Toolkit application. All major components of code, including one rep max calculator, attempts, wilks calculator...etc... 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	<ol style="list-style-type: none">1. Start One Rep Max Calculator2. Enter weight lifted3. Enter repetitions completed
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	<ol style="list-style-type: none">1. Start One Rep Max Calculator2. Enter weight lifted
Expected Results	System displays an error if given unsatisfiable weight input.

Test ID	1.2
Title	Invalid 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	<ol style="list-style-type: none">1. Start One Rep Max Calculator2. Enter repetitions completed
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
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
Expected Results	System displays an error if given unsatisfiable gender input.

4 Test Cases: Attempt

Test ID	3.0
Title	Attempt selector
Feature	Return red or white lights
Objective	Take user data to determine if attempt was red or white lighted.
Test Data	Weight lifted Attempt number
Test Actions	<ol style="list-style-type: none">1. Start Attempt2. Enter weight lifted and attempt number
Expected Results	System returns value of white or red lighting.