
COMP5202

BMI Calculator Test Plan

Introduction

This test plan describes the testing process for the Body Mass Index (BMI) calculator. It is designed to ensure the appropriate information is displayed and test for inappropriate inputs from the user.

Test Items

BMI Calculator app v0.1a (Alpha release)

The application consists of two files, BMI.HTML and BMI.JS, both of which are required for the application to execute.

Test Environment

The application is designed to run in a web browser and utilises the browser consol. Usable web browsers include:

- Google chrome
- Firefox

No other specific systems required for testing.

Scenario

Scenario 1 – Test what will happen if a user inputs the required weight and height information that they are categorised into the correct BMI classification

Scenario 2 – Test what happens if the user enters an invalid input.

Testing Method

The testing for this project will involve two main types of testing:

- Black box Testing – Check the inputs and outputs are appropriate
- White box Testing – Inspection of the code

Both testing methods will require user input from the tester and will then evaluate the resulting conditions.

Pass / Fail Criteria

Scenario 1

Inputs				Outputs
	Height	Weight	BMI	Category
Expected	150	80	35.56	Obese
Actual	150	80	?	?
Expected	170	80	27.68	Overweight
Actual	170	80	?	?
Expected	160	60	23.44	Normal Weight
Actual	160	60	?	?

Scenario 2

Inputs				Outputs
	Height	Weight	BMI	Category
Expected	150	b	Nan	Error msg
Actual	150	b	?	?
Expected	170	a	Nan	Error msg
Actual	170	a	?	?
Expected	c	70	Nan	Error msg
Actual	c	70	?	?

Modification Notes

Scenario 1 – Check if the output matches what is required and / or provide information back to the user if an issue is encountered.

Scenario 2 – Check that the values used is valid and provide meaningful feedback to the user so they understand that their inputs need to be looked at and possibly changed.