**Documentation of Project: Calculator**

Summary this project aims to create a HTML page that is able to perform simple arithmetic calculations.

**For the user,**

Main functions

1. Perform calculations either by using the buttons allocated or direct input from your keyboard. Types of calculations include:

* Additions
* Subtractions
* Multiplications
* Division
* Square Root of any number
* Calculations can also be performed with a decimal place.

1. The calculations are log within the History log for reference.
2. Values can be stored via the MS function
3. Values can be removed via the MC function
4. Values can be added or subtracted via the M+ or M- respectively.

In the absence of a calculator program within the local device, this html web calculator can be a useful tool for the user.

**For the developers**

Key functions coded.

Section A: Generic arithmetic functions for a basic calculator

1. Displaying numeric values into a text box
2. Computing selected numeric values and returning the values into the text box

* Also check if number is divisible by zero before returning value
* Also Check if number is not null before returning value

1. Allocated the “Back” function to remove the last numeric input.
2. A function to clear all values within the text box has been created
3. A Square “value” function has been created.
4. A Decimal Function has been created

Section B: Additional Features

1. Addition of a History log

* Any number(s) with operations performed will be log into the TextArea labeled “History”
* A button function to clear all the logs within the “History” has been created. The Label “History” also acts as the button to clear logs

1. Memory Functions

* mStore is a memory store function to store a value in the local storage has been created. When a number has been stored, it will also be logged inside a ‘Memory Log” textbox
* mRec is a memory function to bring back a value that was previously stored
* mSub is a memory recall function that subtracts directly with another numeric value when triggered
* mAdd is a memory recall function that adds directly with another numeric value when triggered
* MC is a function to clear all data within the memory log.