# MASSTest Documentation

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## **Getting Started**

Open the MASSTest.sln file in Visual Studio. Open Calculate.aspx and run with IIS Express (google chrome preferred).

Application may open in https in the port range of 44300 to 44399. This will cause an error if local certificates are not in place to handle this. An easy workaround is to change to https in the port range of 56000 to 56099.

## Relevant Files

Calculate.aspx
Summary.aspx
Calculate.aspx.vb
Summary.aspx.vb
Contents/Site.css
Scripts/MASSScripts.js

## Requirements Met

## Pages

- -Calculate.aspx
  - -Field1-writeable
  - -Field2-writeable
  - -Field3-Read Only
  - -Button to attempt calculation
  - -Button to navigate to Summary.aspx
  - -On negative number input: Javascript alert specifying values cannot be negative
  - -On NaN: Javascript popup specifying which field is not valid
- -Summary.aspx
  - -Displays a grid of all previous sums
  - -Button to navigate to Calculate.aspx
  - -Button that clears saved summary data

# Inputs

#### Calculate.aspx:

The top field is Field1 and the middle field is Field2. They can both handle whole numbers, decimals, mixed numbers, and fractions.

Field3 provides the answer and is Read-Only

CalcButton(Calculate) attempts to calculate the sum of inputs from Field1 and Field2. SummaryButton(View Summary) navigates to Summary.aspx

#### Summary.aspx

GridView1 binds to the datatable session variable passed from Calculate.aspx and is not editable from the page.

CalcPageButton(Go Back To Calculations) navigates to Calculate.aspx ClearButton(Clear Table) clears the datatable.

# **Special Case Handling**

When a non-number is inputted into Field1 or Field2, a message is generated within Field3 and the sum is not calculated.

If a negative number is inputted into Field1 or Field2, a javascript alert is generated and the sum is not calculated.

# **Design Considerations**

#### Session Variable

In order to avoid any application breaking issues when testing on multiple environments of which I am unaware of the environment, I opted to utilize a datatable as a session variable to share between Calculate.aspx.vb and Summary.aspx.vb. Given the context of this project, I traded persistence of data for stability across environments.

### **Special Case Handling**

Given the context of the project, and given 2 choices of notification between 2 special cases. I opted to use both options in order to better showcase my coding ability.

#### Features

This program has the ability to handle fractions and mixed numbers as well as decimals and rounds irrational numbers.