Christopher Littlewood

Clittlewood50@gmail.com

Numberic converter

Test Plan

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# Introduction:

The object of this test plan is to test the Numeric Converter web application for any bugs. Other tests that will be carried out will be to ensure that the application can handle user errors. Testing the security aspect of this application is beyond the scope of this plan as there is no sensitive data being transferred between the client and the server.

# Scope:

## Data Entry:

These tests will test to make sure that the user cannot enter illegal values or to ensure that the user cannot enter more than the maximum allowed number of characters.

## Data Processing:

Data processing tests will test for user mistakes such as forgetting a decimal point or entering more than two decimal points. These tests will test how the application deals with alpha-numeric values being entered.

## Server Response:

These tests will ensure that the web application returns a human readable response. This includes correct grammar and spelling.

# Test Strategy:

## System Test:

The strategy that will be used to test this application will step through each type of number.

* Test three numbers between 0.01 and 0.10.
* Test three numbers between 0.11 and 0.20.
* Test five numbers between 0.20 and 0.99.
* Test three numbers between 1.00 and 10.99.
* Test three numbers between 11.00 and 20.00.
* Test five number between 20.01 and 99.99.
* Test three numbers between 100.01 and 109.99.
* Test three numbers between 10.00 and 119.99.
* Test five numbers between 120.00 and 200.00.
* Test ten numbers between 200.01 and 999.99.
* Test three numbers between 1000.00 and 1010.00.
* Test three numbers between 1010.01 and 1019.99.
* Test five numbers between 1020.00 and 1100.00.
* Test ten numbers between 1101.00 and 2000.00.
* Test ten numbers between 2000.01 and 9999.99.
* Test for unhandled exception thrown if the user enters a zero before the number.
* Test for unhandled exception thrown if the user enters only one decimal place.
* Test for unhandled exception thrown if the user enters more than two decimal places.
* Test for unhandled exception thrown if the user enters a number greater than 9999.99.

During this test, all exceptions should be handled with error messages explaining what the user did wrong and how they should fix it. These tests should also make sure that the response has correct spelling and grammar.

# Environment Requirements:

## Data Entry Workstations:

The data entry workstation does not have any special requirements. The workstation will need access to the internet with a modern web browser suck as Google Chrome or Mozilla Firefox. Java is also required for this application to run.

## Main Frame:

The main frame will need to host a server capable of supporting Java web applications. The mainframe will also need to be configured to allow other devices to connect to it to access the application.

# Function Testing:

## Functions to be tested:

There are five functions that will need to be tested for this application. These functions are:

* Only decimals entered,
* Single digits entered,
* Double digits entered,
* Triple digits entered and
* Quadruple digits entered.

## Functions not to be tested:

There are features of this application that have not been implemented yet. These features are:

* Entering negative numbers and
* Numbers larger than 9999.99.

# Dependencies:

This web application has three required dependencies. These dependencies are:

* Java,
* JSP extension for Java and
* A web server framework such as Tomcat.