Stringified Numbers to Words Conversion Test Plan

Introduction:

This test plan outlines the approach, objectives, and procedures for testing the functionality of converting stringified numbers to words in currency format. The conversion process involves translating numerical values, including decimals, into their corresponding words, representing both the dollar amount and cents.

Scope:

This test plan covers the testing of the conversion functionality for stringified numbers ranging from zero to the maximum supported value, including various scenarios such as whole numbers, decimals, leading/trailing zeros, and edge cases. The focus is on ensuring accurate conversion and adherence to specified language conventions.

Objectives:

1. To verify the accuracy of the conversion process for stringified numbers to words in currency format.
2. To ensure consistent handling of different input formats and scenarios.
3. To validate the correctness of the output in accordance with expected language conventions.
4. To identify and rectify any discrepancies or inaccuracies in the conversion results.

Test Items:

- Input Validation Tests

Test Item Code	Description	Input	Expected Output
TC1	Input is a valid string representing a number with decimal	"123.45"	Pass
TC2	Input is not a valid string (e.g., contains alphabets or special characters)	"abc.45"	Fail
TC3	Input is an empty string	""	Fail

- Conversion Tests

Test Item Code	Description	Input	Expected Output
TC4	Conversion of a whole number	"123"	"ONE HUNDRED AND TWENTY-THREE DOLLARS"
TC5	Conversion of a decimal number	"0.45"	"FORTY-FIVE CENTS"
TC6	Conversion of a number with decimals	"123.45"	"ONE HUNDRED AND TWENTY-THREE DOLLARS AND FORTY-FIVE CENTS"
TC7	Conversion of a number with leading zeros	"0050.99"	"FIFTY DOLLARS AND NINETY-NINE CENTS"
TC8	Conversion of a number with trailing zeros	"100.5000"	"ONE HUNDRED DOLLARS AND FIFTY CENTS"

- Boundary/Edge Tests

Test Item Code	Description	Input	Expected Output
TC9	Conversion of the minimum possible number	"0"	"ZERO"
TC10	Conversion of the maximum possible number	"99999999999999999999999999999999999999999999999999999999999.99"	"NINE VIGINTILLOIN NINE HUNDRED AND NINETY-NINE NOVEMDECILLOIN NINE HUNDRED AND NINETY-NINE OCTODECILLOIN NINE HUNDRED AND NINETY-NINE SEPTDECILLOIN NINE HUNDRED AND NINETY-NINE SEXDECILLOIN NINE HUNDRED AND NINETY-NINE QUINDECILLOIN NINE HUNDRED AND NINETY-NINE QUATTUORDECILLOIN NINE HUNDRED AND NINETY-NINE TREDECILLOIN NINE HUNDRED AND

			NINETY-NINE DUODECILLOIN NINE HUNDRED AND NINETY-NINE UNDECILLOIN NINE HUNDRED AND NINETY-NINE DECILLOIN NINE HUNDRED AND NINETY-NINE NONILLION NINE HUNDRED AND NINETY-NINE OCTILLION NINE HUNDRED AND NINETY-NINE SEPTILLION NINE HUNDRED AND NINETY-NINE SEXTILLION NINE HUNDRED AND NINETY-NINE QUINTILLION NINE HUNDRED AND NINETY-NINE QUADRILLION NINE HUNDRED AND NINETY-NINE TRILLION NINE HUNDRED AND NINETY-NINE BILLION NINE HUNDRED AND NINETY-NINE MILLION NINE HUNDRED AND NINETY-NINE THOUSAND NINE HUNDRED AND NINETY-NINE DOLLARS AND NINETY-NINE CENTS"
TC11	Conversion of the minimum possible decimal number	"0.01"	"ONE CENT"
TC12	Conversion of the maximum possible decimal number	"0.99"	"NINETY-NINE CENTS"
TC13	Conversion of a number with only one non-zero digit	"0.1"	"TEN CENTS"
TC14	Conversion of a number with large decimal digits without rounding	"123.45123"	"ONE HUNDRED AND TWENTY-THREE

			DOLLARS AND FORTY-FIVE CENTS"
TC15	Conversion of a number with large decimal digits with rounding	"123.45678"	"ONE HUNDRED AND TWENTY-THREE DOLLARS AND FORTY-SIX CENTS"
TC16	Conversion of a negative number	"-123.45"	"NEGATIVE ONE HUNDRED AND TWENTY-THREE DOLLARS AND FORTY-FIVE CENTS"
TC17	Conversion of an unsupported number (> Vigintillion)	"99999999999999999999999999999999999999999999999999999999999.99"	"Unsupported number"