Temperature Conversion Design Document.

Introduction

This document outlines the requirements for a small application to convert Celsius temperatures to Fahrenheit and display them in a table.

General Description

The application will generate a table showing Celsius temperatures and their corresponding Fahrenheit conversions, providing a simple tool for temperature conversion.

Functional Requirements(Kinda like a pseudocode)

Display labels "Celsius" and "Fahrenheit" at the top of the table.

For each line in the table:

* Set the Celsius value to the next temperature in the sequence.
* Convert the Celsius temperature to Fahrenheit.
* Print one line of the output table with each temperature rounded to the nearest hundredth, labeled with "C" or "F".

Print a line of dashes at the bottom of the table.

Components design.

Interface Requirements

The application will output a text-based table in the console.

Performance Requirements

The application must process and display the table within 1 second.

Design constraints

The solution must use a simple programming language (e.g., Java) suitable for educational purposes.

Non-Functional Attributes

The output should be clear, readable, and accurately reflect the conversion formula: °F = (°C × 9/5) + 32.

Preliminary Schedule and Budget

Development: 1 week.

Budget: Minimal (open-source tools).

Appendices

Sample output: A table with at least 5 Celsius values (e.g., 0, 10, 20, 30, 40) and their Fahrenheit equivalents.

Uses of SRS Document

Guide development and ensure all requirements are met.

FAQs on SRS format

Q: Can the format be adjusted? A: Yes, as long as all key sections are included.

Conclusion.

This SRS provides a concise framework for developing the intended temperature conversion table application.