

Assignment 1

CSCI/CINF 4320.01 – Web Application Development, Fall 2022

Due Date: 09-20-22, 11:55pm

Submission Guidelines

Zip the folder that contains the Visual studio project and upload it in the Blackboard.

Description of Assignment

Design and develop a single page ASP.NET web application that allows its users to perform following conversions:

Type	Conversions	Formula
Length	Kilometers to Miles	1 Km = 0.621371 miles
	Miles to Kilometers	1 Mile = 1.60934 Kilometers
	Yard to Feet	1 Yard = 3 Feet
	Feet to Yard	1 Feet = 0.33333 Yards
	Inches to Centimeters	1 Inch = 2.54 Centimeters
	Centimeters to Inches	1 Centimeter = 0.3937 Inches
Liquid	Liters to Gallons	1 Liter = 0.264172 Gallons
	Gallons to Liters	1 Gallon = 3.78541 Liters
	Pints to Gallons	1 Pint = 0.125 Gallons
	Gallons to Pints	1 Gallon = 9.60762 Pints
	Quarts to Gallons	1 Quart = 0.20817 Gallons
	Gallons to Quarts	1 Gallon = 4.80381 Quarts
Temperature	Fahrenheit to Celsius	1 Fahrenheit = (Celsius x 1.8) + 32
	Celsius to Fahrenheit	1 Celsius = (Fahrenheit - 32)*0.5555
Mass	Kilograms to Pounds	1 Kg = 2.20462 Pounds
	Pounds to Kilograms	1 Pound = 0.453592 Kgs
	Ounce to Grams	1 Ounce = 28.3495 Grams
	Grams to Ounce	1 Gram = 0.035274 Ounces

Here are the specific requirements for the web page design:

- Provide a **drop down** from which the user can choose the conversion type (*Length/Liquid/Temperature/Mass*)
- When a conversion type is selected, you must show all available conversion options for that type (for example, in case of *Length* tab, conversion options are *Kilometers to Miles, Miles to Kilometers* etc) in another **drop down**
- Provide a **text box** where the user can type the value of required conversion
- Show the converted output value in a **label**
- Provide a **Convert** button to perform the conversion
- Provide a **Clear** button to clear (or reset) the contents of all controls on the page
- Assume that the user always provide valid input, so no need to perform any data validation in your code