

Unit Converter Web application

Project Documentation

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Introduction to the topic

Unit Converter is an application used to convert various units of measurement such as length, temperature. Users can easily convert units between different scales.

Technologies used in the project

I used c# technology, .ASP NET 8 CORE MVC

GitHub Link

<https://github.com/patrykkoc/UnitsConverterWebApp>

Functionalities

Category Selection

The user can select a category (e.g., Length, Mass, Temperature) to filter available units.

After selecting a category, the "From" and "To" unit dropdowns are automatically updated based on the selection.

Unit Conversion

The user can convert values between units within the same category

All fields in the conversion form are required.

User Registration and Login

Users can create an account and log in using a username and password

Session-based login system keeps users authenticated across requests

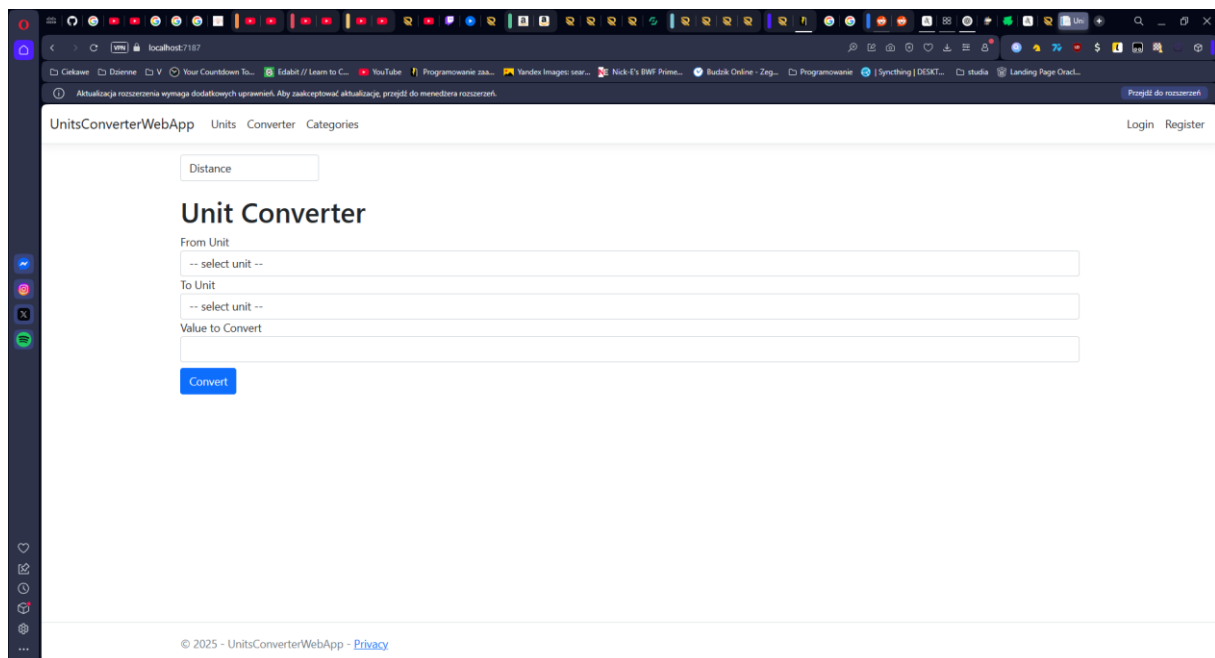
Conversion History (for logged-in users)

Each conversion is stored in the database if the user is logged in

Logged-in users have a personal conversion history saved with timestamps

Elements of application

For user



Unit converter

Units

<input type="text" value="Search by Name"/>					
<input type="button" value="Search"/>					
Name	Symbol	Category	MultiplierToBase	OffsetToBase	IsBaseUnit
Celsius	°C	Temperature	1	0	<input checked="" type="checkbox"/>
Centimeter	cm	Distance	0,01	0	<input type="checkbox"/>
Fahrenheit	°F	Temperature	0,5555555555555556	-17,77777777777778	<input type="checkbox"/>
Meter	m	Distance	1	0	<input checked="" type="checkbox"/>
<div>Previous 1 Next</div>					

Categories

Search categories...

Search

Name

[Distance](#)

[Temperature](#)

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Details

Distance

Name	Symbol	Multiplier	Is Base Unit	
Meter	m	1	Yes	Details
Centimeter	cm	0,01	No	Details

Powrót

For admin

Units

Create New

Search by Name

Search

Name	Symbol	Category	MultiplierToBase	OffsetToBase	IsBaseUnit	
Celsius	°C	Temperature	1	0	<input checked="" type="checkbox"/>	Edit Details Delete
Centimeter	cm	Distance	0,01	0	<input type="checkbox"/>	Edit Details Delete
Fahrenheit	°F	Temperature	0,5555555555555556	-17,77777777777778	<input type="checkbox"/>	Edit Details Delete
Meter	m	Distance	1	0	<input checked="" type="checkbox"/>	Edit Details Delete

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Distance

Unit Converter

From Unit

-- select unit --

To Unit

-- select unit --

Value to Convert

Convert

Converse History

Filter by Category:

All Categories						
Data	Z jednostki	Do jednostki	Wartość wejściowa	Wynik	Użytkownik	Akcje
08.06.2025 23:38:38	Meter (Distance)	Fahrenheit (Temperature)	124	255,2	admin	<button>Usuń</button>
08.06.2025 23:38:31	Meter (Distance)	Celsius (Temperature)	123	123	admin	<button>Usuń</button>
08.06.2025 23:38:22	Meter (Distance)	Centimeter (Distance)	123	12300	admin	<button>Usuń</button>
08.06.2025 23:14:49	Meter (Distance)	Centimeter (Distance)	1234	123400	user	<button>Usuń</button>

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[Show Stats](#)

Categories

Search

[Create New](#)

Name

Distance

Edit | Details | Delete

Temperature

Edit | Details | Delete

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Class Diagram

Using <https://www.plantuml.com>

