

GLOBAL BLUE - HOMEWORK

User story

As a web portal user, I would like to calculate Net, Gross, VAT amounts for purchases in Austria so that I can use correctly calculated data.

ACCEPTANCE CRITERIA

- If user inputs one of the net, gross or VAT amounts and additionally a valid Austrian VAT rate (10%, 13%, 20%), the other two missing amounts (net/gross/VAT) are calculated by the system and shown
- the system provides an error with meaningful error messages, in case of:
 - missing or invalid (0 or non-numeric) amount input, more than one input
 - missing or invalid (0 or non-numeric) VAT input
- web interface must be responsive and needs to work on all standard desktop resolutions – supported browsers are Mozilla, Chrome, Edge (no mobile or tablet support)

TECHNICAL REQUIREMENTS

- the solution needs to be implemented in Angular 18 framework
- the solution needs to use Angular Material CSS framework/UI components (<https://material.angular.io>)
- the backend implementation shall be done with .NET 8.0 framework and utilize the dependency injection (DI) design pattern and SOLID principles
- API needs to fulfil the REST API standards
- the solution needs to be published in a public GitHub repository what could be accessed by GB team

You can use the link below to test the calculation logic:

[<<https://www.calkoo.com/en/vat-calculator>>](https://www.calkoo.com/en/vat-calculator)