

TTF ASSIGNMENT

As TTF is a rather complex system, it's important for us, that you have an eye for algorithmic design and implementing rather complex user input mappings.

In this assignment, we want you to implement a (very simple) version of how TTF works.

You are given a number of inputs, mappings between inputs and outputs, and the expected output.

The algorithm should be implemented in a SOLID manner, and be exposed in a simple REST api.

Your assignment can be implemented in PHP or C# (any version you prefer), and you can use any framework / libraries that you wish. Unit testing is not a requirement, but a certain plus.

Inputs

We have the following variables:

A: bool

B: bool

C: bool

D: int

E: int

F: int

Outputs

The outputs are defined as:

X: enum[S,R,T]

Y: real/float/decimal

Mappings

The assignment consists of a 'base mapping', and two specialized mappings that override / extend the base mapping.

Base

```
A && B && !C => X = S
A && B && C => X = R
!A && B && C => X = T
[other] => [error]

X = S => Y = D + (D * E / 100)
X = R => Y = D + (D * (E - F) / 100)
X = T => Y = D - (D * F / 100)
```

Specialized 1

```
X = R => Y = 2D + (D * E / 100)
```

Specialized 2

```
A && B && !C => X = T
A && !B && C => X = S

X = S => Y = F + D + (D * E / 100)
```

REST

Please implement the algorithms in any RESTful manner, you seem fit. The services should, however, return the resulting data as JSON.

Applying

The assignment should be sent to lars@tidtilforsikring.dk, either as a zip-folder or link to a VCS repository.

Please also include your resume in the application, and any other relevant information.