

# Open assessment - Contacts

Last updated by | Junior, Jose L. (TR Technology & Ops) | Dec 21, 2020 at 5:36 PM GMT-3

---

## Goal

The goal of this task is to evaluate your coding skills and what you value when creating a new software.

## Task

- Implement a Web Application with registration, listing, visualization and deletion of **Contacts**, which may be either a *Natural person* or *Legal person*.
- A user must be able to create a contact with, at least, the information below:
  - *Natural person*: Name, CPF, Birthday, Gender and Address (ZipCode, Country, State, City, Address line 1 and Address line 2).
  - *Legal person*: Company name, Trade name, CNPJ and Address (ZipCode, Country, State, City, Address line 1 and Address line 2).
- The CPF and CNPJ fields should be validated based on their patterns: 999.999.999-99 and 99.999.999/9991-99.
- Also validate if a value was provided for the fields you decide they should be required.

## Instructions

- The back-end should be written in C#, using .NET Framework or .NET Core.
- The client-side can be written in Razor, Angular, or some other technology/framework you prefer.
- All the code must be written in English.
- Documentation should be done in the code itself.
- There is no need for wasting time with complex data persistence implementations. Instead, make sure the project has the correct abstractions, so the data persistence could be easily replaced (you could use *memory collections* to simulate entities instead of *DbContext entities*).
- Tests techniques are encouraged (but not required).
- Besides the pre-defined requirements, feel free to improve or extend the features if you want to.
- If you have any other technology you're passionate about and want to use it, feel free to do so as well.
- Simple and objective README file, clarifying how to compile, run, and test the application.
- Explain the premises/assumptions of your implementation in the README file. Choices are good, but they need to be communicated.
- Please DO NOT USE "Thomson Reuters" or other names related to TR branding when naming things.
- The project should be provided on GitHub and its link sent by email, within the agreed period.