# OCQ-Soft GmbH Test Application – Iwan Rosho

2nd Interview: 17.03.2022 Candidate: Iwan Rosho Author: Thomas Roth

## Create a WPF Application

The UseCase: Manage persons in a application with a database connection for saving data.

The applications content is splitted in two parts.

Located on the left half, there's a TreeView and on the right side, a simple form consisting of labels and textboxes.

The application should provide a "save" and a "new" button for creating new persons and editing existing persons.

When changing the window size oft he application, the content should form properly.

#### TreeView:

The TreeView shows all already existing persons in the database.

The RootNode of the TreeView is named "Persons".

All subnodes oft he rootnode have the following naming-pattern: Lastname, Forename

Clicking a subnode fills the form on the right side with the selected person object and the text "Selected Person: …" will be set.

Loading-Behavior: When starting the application it should load all entries from database, if theres no entry, it should just show the rootnode.

## "New"-Button-Behavior:

Instead of the text "Selected Person: ..." the application should show the text "New person" when clicking on the new button.

Also when clicking on the new button, the form should clear all textboxes.

## "Save"-Button-Behavior:

Editing an existing person should save the data in database for the existing person when clicking the "Save"-Button.

Also when clicking the "Save"-Button and it's a new person, then it will create a new person in database and refresh the treeview with the new person database entry.

## Database / Model:

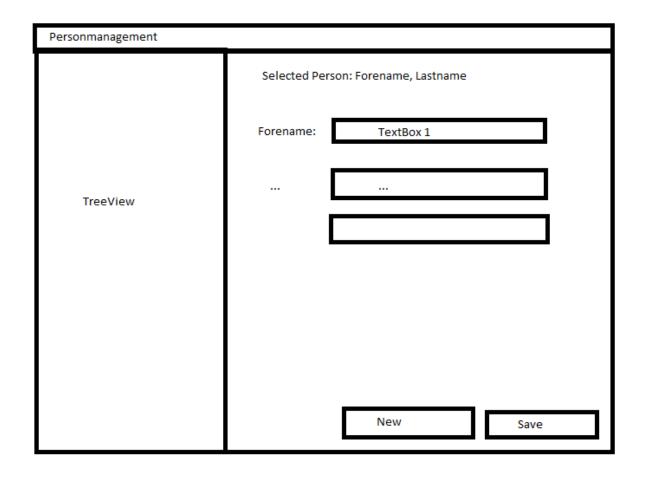
Create a new mssql database with one table, representing the following model:

#### Person

- Forename
- Lastname
- Comment

# Technologies to use:

- For the GUI please use C# WPF with .NetFramework 5.0
- Fort he database connection within the application please use EntityFramework (DBFirst or CodeFirst doesn't matter)
- (Database Software: MSSQL-Express Edition)
- (DIE: Visual Studio 2022 Community Edition)



<sup>\*</sup>Please note that you have take care yourself for a primary key within the model