

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 of the 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 of the 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 there's 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**

*Please note that you have take care yourself for a primary key within the model

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)

Personmanagement

TreeView

Selected Person: Forename, Lastname

Forename: TextBox 1

...

...

New Save