University database management system

Overview

In this project it is required to create a data base management for HSE university. The program should include data from the following dataset.

Link to dataset

Dataset description

Given dataset contain following information separated by semi-column:

- **ID** – unique number for identification
- **Name** – first and second name of the person separated by space
- **Gender** – gender field
- **Date of birth** – three numbers separated by
- **Position** – position can be selected from the list (Student, Teacher, Service staff, Academic, Study office)
- **E-mail –** e-mail address of a person
- **Phone –** phone number (can be empty)

Project functionality

Basic features:

- Search by person's name in certain groups (Student, Teacher, Service staff, Academic, Study office)
- Add new person to the database
- Edit existing person to the database
- Delete existing person from the list
- Sort by any of fields given in the dataset by button

Advanced features (must include basic features):

- Advanced search by phone number, e-mail, date of birth separately and by combination of these parameters
- Sort by any of fields given in the dataset by pressing on the head of the table (decreasing and increasing order)
- Add special field for comments for each person

Super advanced features (features that can make your project remarkable and are not obligatory)

- Add support for profile photos
- Add SQL database support

User Interface description

Main window

The main window of the program should look like the markup above. However, it is possible to edit elements and colors of the window at own discretion.

Buttons

- **Search** – by pressing a button updates table in the main window with results search from parameters given in input field and check boxes
- **Delete** – after a confirmation deletes selected line in the table (confirmation should sound like – "Are you sure" YES/NO)
- **Edit** – opens a profile window with active fields allowing to edit any information of a person's profile
- **Add** – opens a profile window with empty and active fields allowing to add any information of a person's profile
- **Advanced search** – feature from advanced list opens new window with input fields for search

Context actions

- **Double click on any row in the table** - opens a profile window with disabled input fields without a permission for editing.
- **Right mouse button on any row in the table** – opens context menu with following options (Delete, Edit)

Window markups

Windows below can be is allowed to design at own discretion but following markups shows recommended instructions.

Advanced profile markup

Basic profile markup

Search

Name: [Name]

Position: [Select ▾]

E-mail: [E-mail]

Phone: [Phone]

[Submit]

Advanced search markup