

Report - Bachelor's Degree Programme

Technology, communication and transport

USER INTERFACE PROGRAMMING EXCERCISE

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**Application’s general description**

Make the C# GUI program for managing person data. By using program’s graphical user interface user can save data of many persons in the file. File reading should also be possible. Person data includes: first name, family name, gender, birthday and birthplace. Program should be able to list person data in alphabetical and birthday order. All of the person’s data should be possible to modify, add or remove. The use of the program should be easy (for example when user wants to remove or modify person data, she doesn’t need to write the person’s name, but she can use a person list to select the person.

**User manual**

Step 1: Open program. A login window will appear. Type in Username and Password to login. Default username is Admin, default password is 123456. Then click Login button to enter main Window.

A screenshot of a cell phone

Description automatically generated

Step 2: After click Login button, Personal Data Form will appear. To see detailed information of each line in grid table, click on this line.

A screenshot of a cell phone

Description automatically generated

Step 3: Fill the textbox with information. To choose the birthday, click on the arrow in the right corner of “Date Of Birth” field.

A screenshot of a cell phone

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Step 4: After fill all the data textbox, click button “SAVE”. New line will be added to Gridview Table.

A screenshot of a cell phone

Description automatically generated

Step 5: Use Clear Fill Button to clear data in all the fields.

A screenshot of a cell phone

Description automatically generated

Step 6: To update information, click on the line of gridView Table, which you want to update. Then all the field will be filled with old information. Change the field you want to fix and then click Update

Step 7: If you want to delete a line, click on it. Then click “Delete” button.

Step 8: Click “Static” button to see data analysis.

A screenshot of a cell phone

Description automatically generated

Step 9: To find a person’s information, you fill the textbox on the right bottom of the window with the first name, then click “Search” button. The line will appear on table. Click “Back” to go back the full data table

.A screenshot of a social media post

Description automatically generated

Step 10: Click Exit Button to escape the program.

**Main files of the application and short description of them**

The program includes the files below:

* Class1.cs: This class is used to store the address string which connect Login Form with Login database.
* Class2.cs: This class is used to store the address string which connect Personal Data Form with Personal Information database.
* Round\_Button.cs: A custom style button is defined in this class. This button is used in Personal Data Form
* Program.cs: Main class, that the program will start from this class.
* Form1.cs: A class derived from Form class, which is used to design Login Form
* Form2.cs: A class derived from Form class, which is used to design Personal Data Form
* Spring\_Semester\_DataBase\_login.mdf: primary database file, which contains the schema and data which connect to Login Form.
* Spring\_Semester\_DataBase\_loginDataSet.xsd: represents a complete set of data including the tables that contain, order, and constrain the data, as well as the relationships between the Login tables.
* Spring\_Semester\_Database.mdf: primary database file, which contains the schema and data for which connect to Personal Information Form.
* Spring\_Semester\_DataBase\_DataSet.xsd: represents a complete set of data including the tables that contain, order, and constrain the data, as well as the relationships between the Personal Information Form.
* AssemblyInfo.cs: contains information about program assembly, like name, description, version, etc.
* Savonia\_Semester\_1.exe: An executable is a file that contains a program - that is, a particular kind of file that is capable of being executed or run as a program in the computer.

**Estimate of the total time you spent for doing the practical work**

3 hours

**Self-evaluation**

After the course, I have achieved a lot of improvement :

* Understand the background knowledge of C # Winform to study more intensive courses
* Understand the use of basic controls tool and feature of winform.
* More Proficient in the basic techniques of Winform programming.
* Can create my own window application.

The User Interface is how we can create a design field of human-computer interaction. My knowledge becomes better to understand that there are many layers of under any application. This course is also very important and help me understand more clearly about how UIs technique are designed and implemented in many electrical devices such as Android for Mobile, monitor UI of PLC system etc.