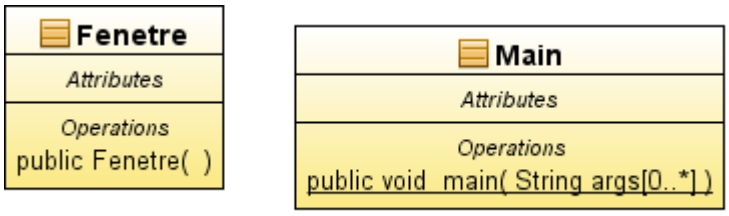
Lucie TEILHAC

Multithreaded Address Book

Advanced Java

2013-2014

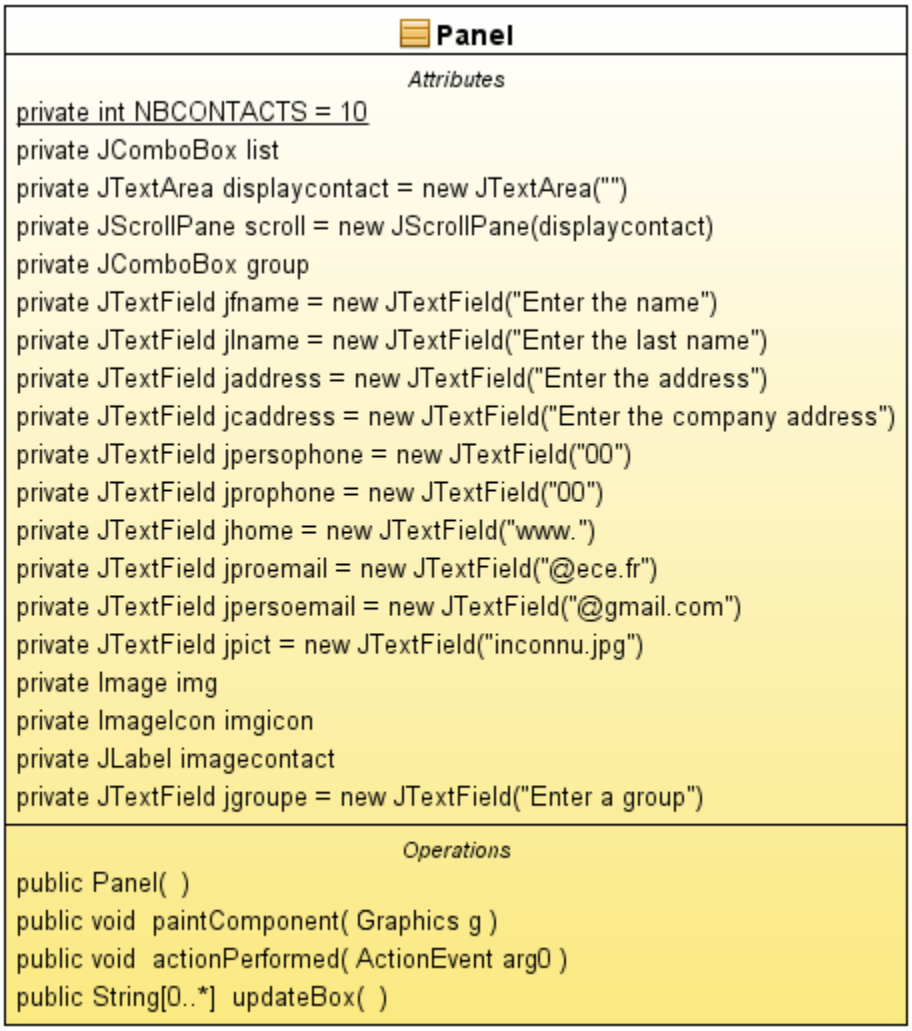
Package Controller



Class Main:
The main class contains a Fenetre variable and is only used to call the Fenetre class.

Class Fenetre:
The Fenetre class contains its configuration and is used to declare a container, (Panel).

Package view



CLASS PANEL:

The panel class extends the JPanel class.

It's my container and it contains in its attributes all the elements of the frame.

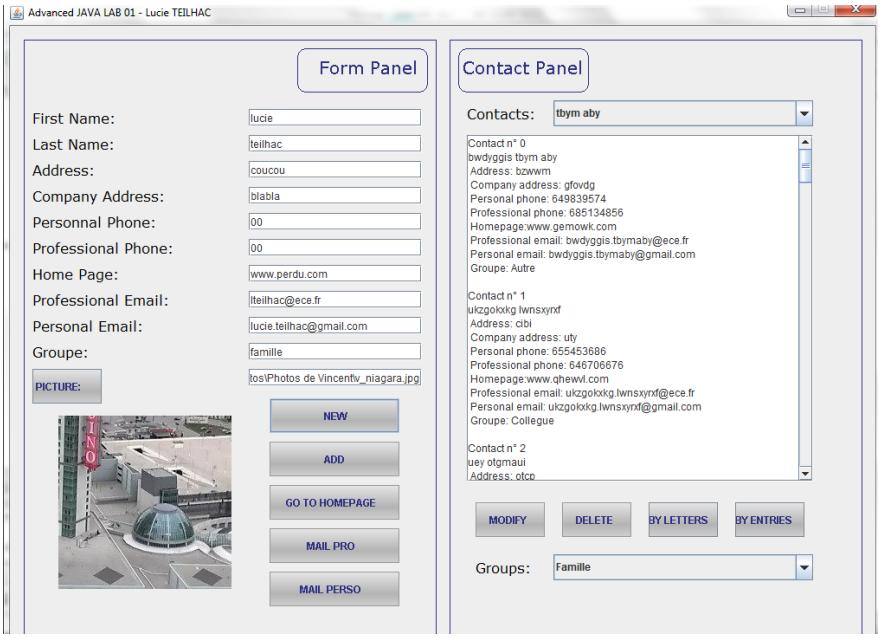
Its constructor set up the view and adds all the components to the container.

The PaintComponent function is used to draw in the background of the panel.

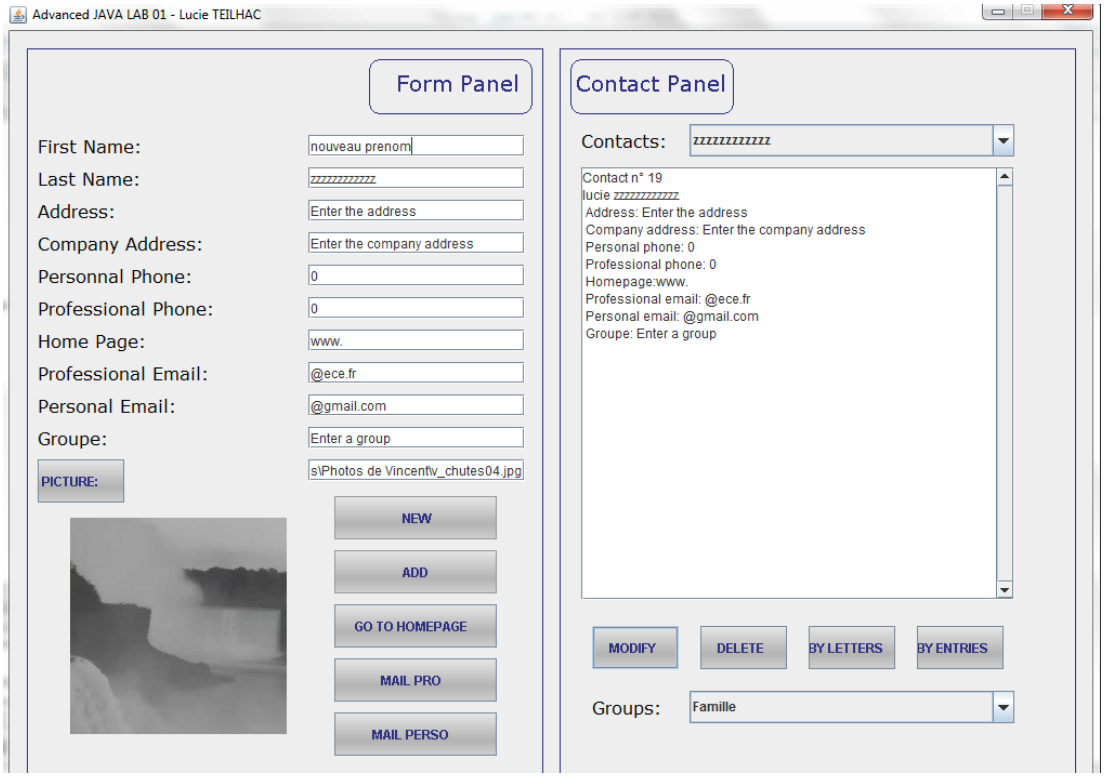
The ActionPerformed function is used to handle all the actions make by the user by clicking on the buttons. It recognize which button or component has been clicked and do the corresponding action: add a contact, modify a contact, delete a contact, order the list by entries, by groups or by letters, send a mail ,visit a website or simply display a chosen contact.

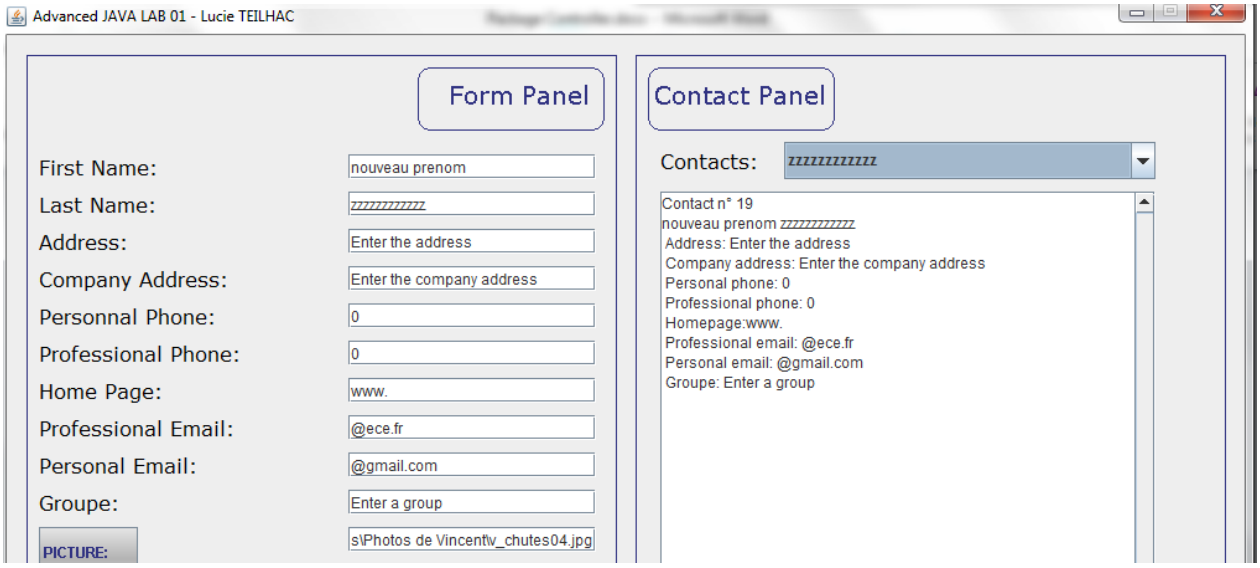
The UpdateBox function is used to full the JComboBox containing the contact's lastname list.

All the buttons aren't enable to use all the time. For example, to create a new contact, you need to click on the "new" button, then to fill the form and finally, click on the "Add" button. The new contact is displayed on the JTextField.



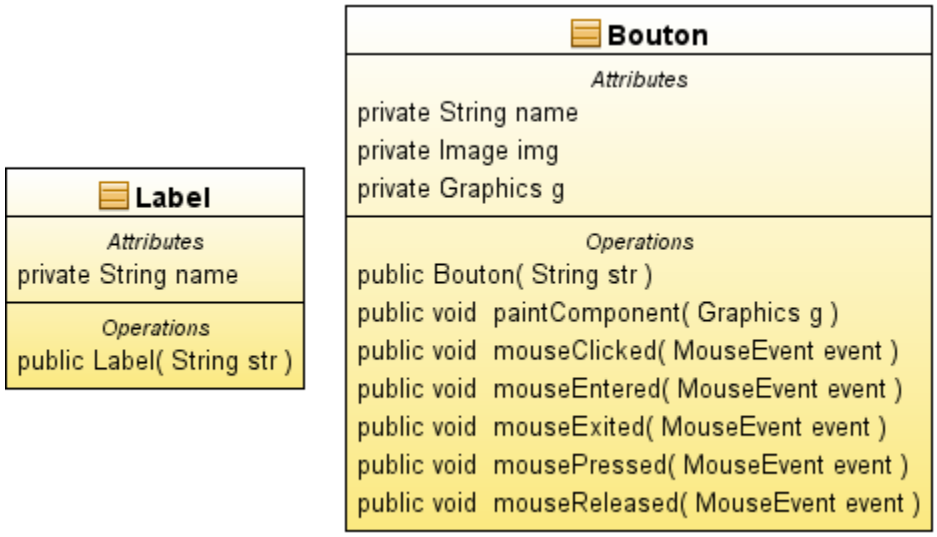
To modify or delete a contact, you first need to select it in the comboBox and then, you can modify it or delete it. You just have to click on the good button, or to complete/change the form value and click on "modify".

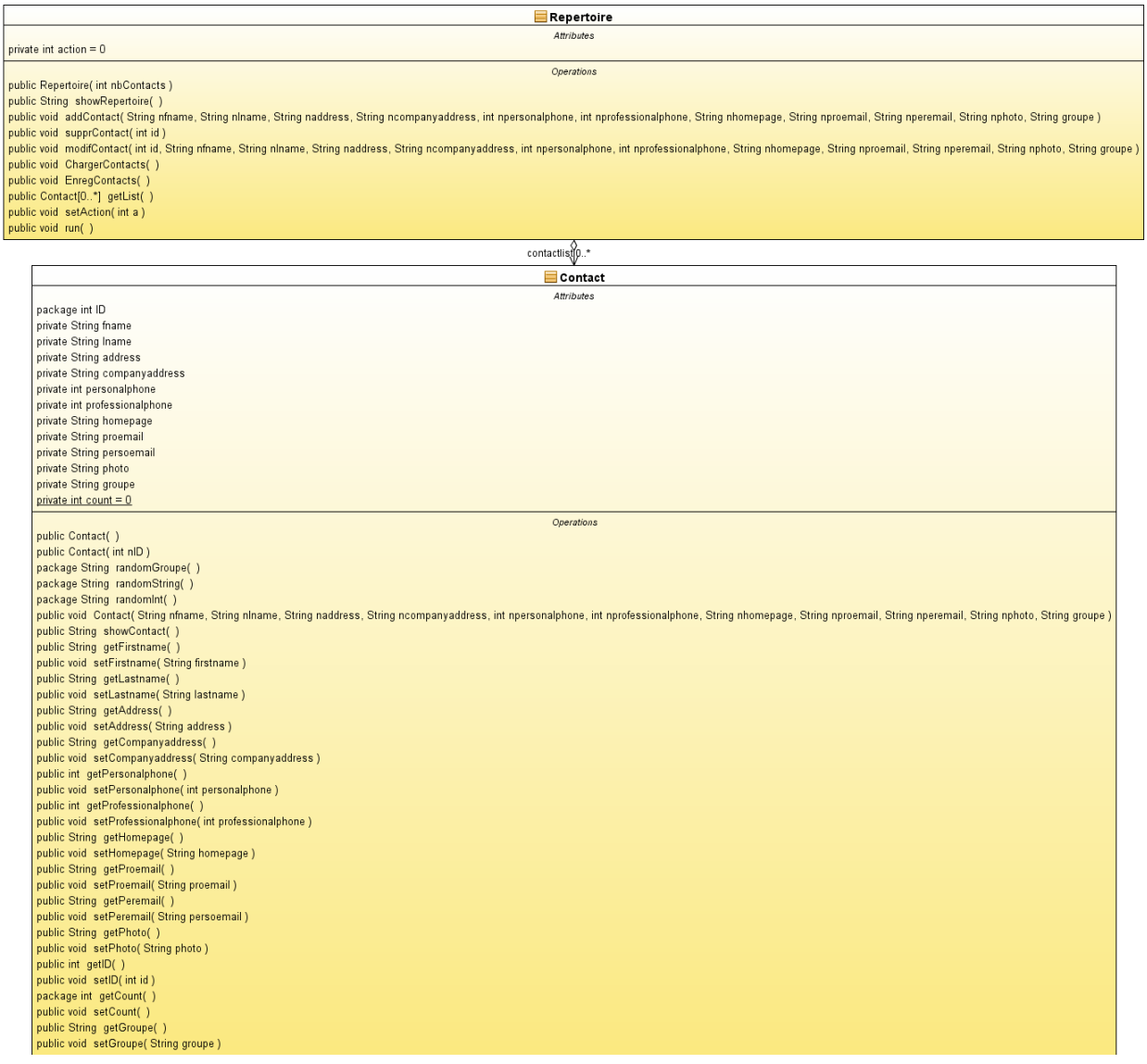




In the same way, you can see a homepage and send an email only if you first select a contact in the combo box. All the functionalities are working.

Package Model





CLASS BOUTON:

I create my own JButton class only to customize my buttons.

CLASS LABEL:

I create my own JLabel class only to customize my labels.

CLASS CONTACT:

The contact class contains all the parameters of a contact in its attributes and all the setter and getter to access to them in its operation.

CLASS REPERTOIRE:

The Repertoire class contains an Arraylist of contact. This class processes the contact data thanks to this contact list. This class also implements runnable.

The constructor initialize the Arraylist.

The ShowRepertoire function calls a contact function that returns a string containing all the informations about each contact. This function is used to display the contact list in the view.

The add/delete/modify function is used to respectively add/delete/modify a contact of the Arraylist.

The ChargerContact function and the EnregContact function are used to import and export the contact list in the .csv file. These functions are called by the run function.

Threads:

As I said, the repertoire class implements runnable. That's why there is a run function in it. This function is used to, according to the action required, import or export the contact in the address book. To do this, I used threads and this choice allows the user to keep working on the interface while the address book is saving the changes the user made.

Since I used NetBeans to code this project, I give you a GitHub link to my address book:

https://github.com/LucieT/ADVANCEDJAVA/