Faculty of Computers, Informatics and Microelectronics
Technical University of Moldova

Windows Programming
Laboratory work # 2

Advanced Form Elements. Child Windows. Basics of Working With Keyboard.

Author :

Bantuș Vladislav

Supervisor :

Mihai Coșleț

March 18, 2018

Laboratory work #1

1 Laboratory Work Requirements

Mandatory Objectives

- Display a dialog box on some event (ex. on clicking some button)
- Add a system menu to your application with at least 3 items (add actions to that items)
- Add a scroll bar that will change any visible parameter of any other element (color of a text)
- Hook keyboard input. Add 2 custom events for 2 different keyboard combinations (ex. change window background on ctrl+space)

Objectives With Points

- Add a listbox and attach some events when any element is accessed (clicked) (2 pt)
- Add 2 scroll bars that will manage main window size or position (1 pt)
- Customize your application by adding an icon and using different cursor in application (1 pt)
- Use a scroll bar to scroll through application working space. Scroll should appear only when necessary (eg. when window width is smaller than 300px) (1 pt)

3 Laboratory work implementation

3.1 Tasks and Points

Mandatory Objectives

- Display a dialog box on some event (ex. on clicking some button)
  - Dialog box is displayed on clicking on close item (Menu -> Features -> Close).
- Add a system menu to your application with at least 3 items (add actions to that items)
  - This app has 3 Menu items with submenu items (each item has its own action).
- Add a scroll bar that will change any visible parameter of any other element (color of a text)
  - This app has 2 scroll bars which change the position of the main window.
- Hook keyboard input. Add 2 custom events for 2 different keyboard combinations (ex. change window background on ctrl+space)
  - The background color of the window is changed to black on clicking "B" and to white on clicking "W".

All mandatory objects are implemented !

Objectives With Points

- Add a listbox and attach some events when any element is accessed (clicked) (2 pt)
  - There are a list box where you can :
    1. Add items by clicking add button.
    2. Remove items by choosing an item and clicking on Remove buton.
    3. Clear all list box items by clicking on Clear button.
- Add 2 scroll bars that will manage main window size or position (1 pt)
  - There are 2 scroll bars that manage main window position.
- Customize your application by adding an icon and using different cursor in application (1 pt)
  - An icon is added to the app. Cursor is also changed.
- Use a scroll bar to scroll through application working space. Scroll should appear only when necessary (eg. when window width is smaller than 300px) (1 pt)
  - This objective was not realized , but instead of that the main window has min and max size and due to that there are no need of scroll bar.

4p / 5p

3.2 Laboratory work analysis

Link to my repository - https://github.com/Vladdd97/PPE.git

All Features of this application are self explanatory . All you have to do is to write a Name and Surname in the edit window , after that to press Add Item button, the text you have entered will be added to the list box like item .
You can also select the item from list box and after that remove it by clicking on Remove item button , or you can clean the list box by clicking the Clear button .
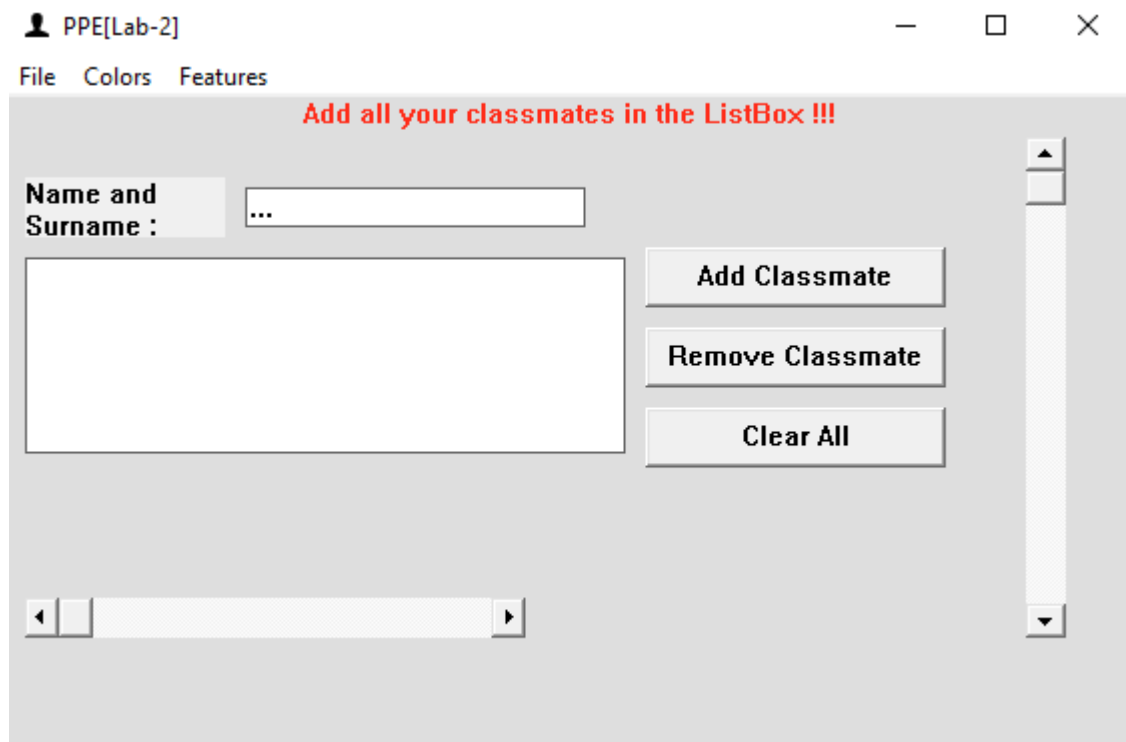
3.3 Screens
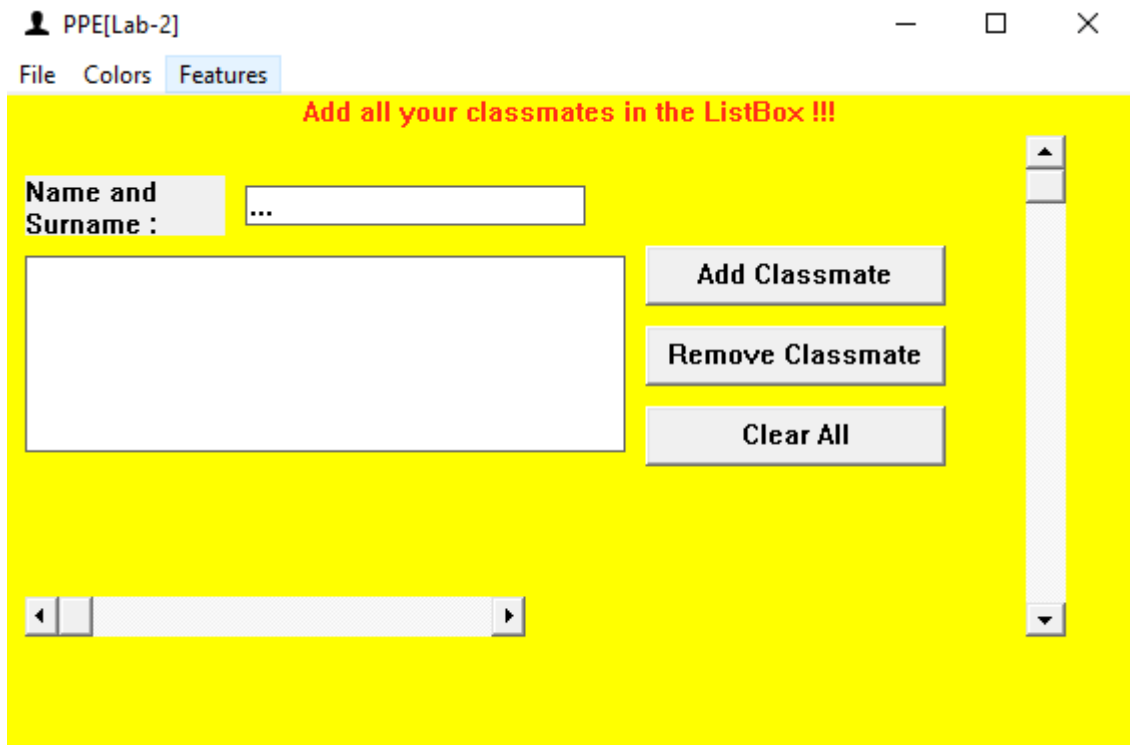

Figure 1. Window Application
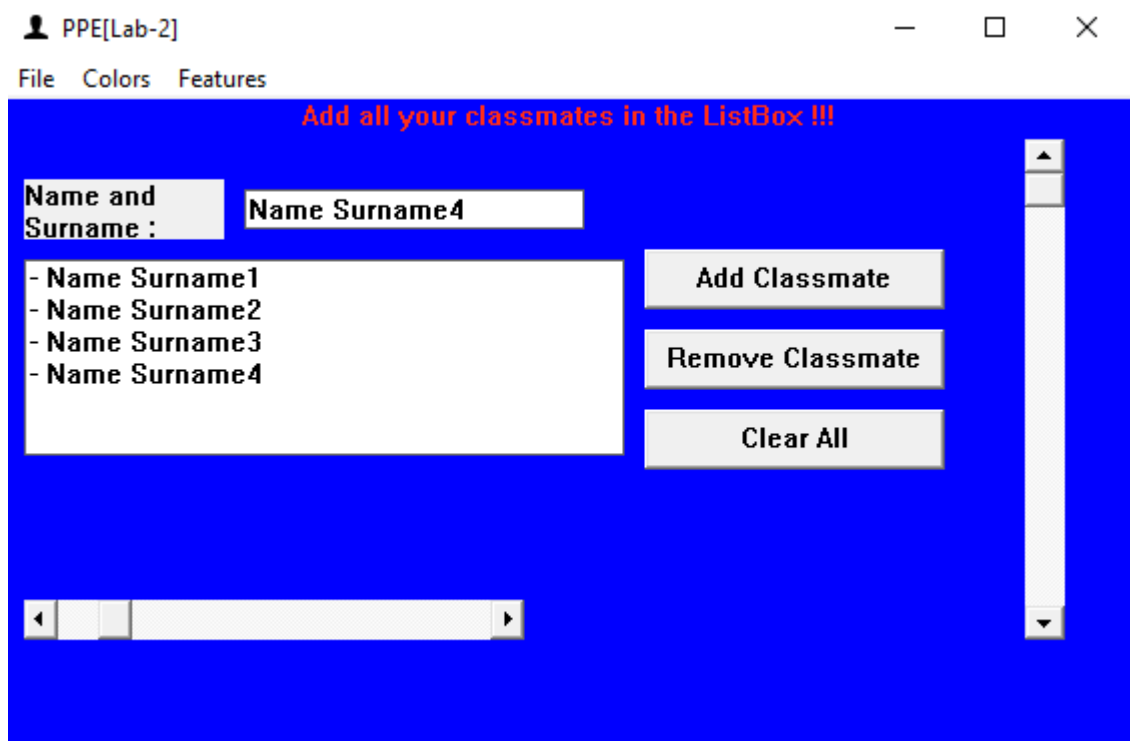
Figure 2. Menu Item action

Figure 3. Add button event

Conclusion

 For this laboratory work we made a custom windows form application . This time we used dialog boxes and menus to add more features to our app .

References

theForger's Win32 API Tutorial - http://www.winprog.org/tutorial/