Technical University of Moldova

20.05.2018

PPE Laboratory 6

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Semester 2

Chisinau 2018

Title:

Developing using C#. WinRT

Contents:

- C#
- WinRT

Mandatory Objectives:

- Convert a previous laboratory work to C#
- Create a ToDo list. Should contain:
  - A list of tasks;
  - A way to add new tasks from UI.

Objectives With points:

- Create a report;
- Use WinRT;
- Create a pull request with a meaningful fix/feature to 5th WP laboratory work of your colleagues. It should be a project in which you were not involved.

Tasks:

- Created an animation using Windows timer;
- (2 pt) Added option to change animation speed with mouse wheel;
- (2 pt) Solved flickering problem by using double buffering. Created another compatible dc to draw objects inside it and at the end copied that dc into our main dc. This makes window update only once and prevents from flickering.
- (6 pt) Added possibility to add objects with different properties (moving angle, velocity, color, radius) using mouse clicks. Also, every object interacts with

each other, there are collisions. Objects mutate a bit their color if there is a collision with another object and equalized the speed of each other.

Short Description:

- User types a todo then presses on "Add" button to add it to the global list;

- If user wants to remove or completed a task, he can double click on an item and confirm his action with a message box to delete an item from the list;

- Every item is saved in a file upon addition to listbox;

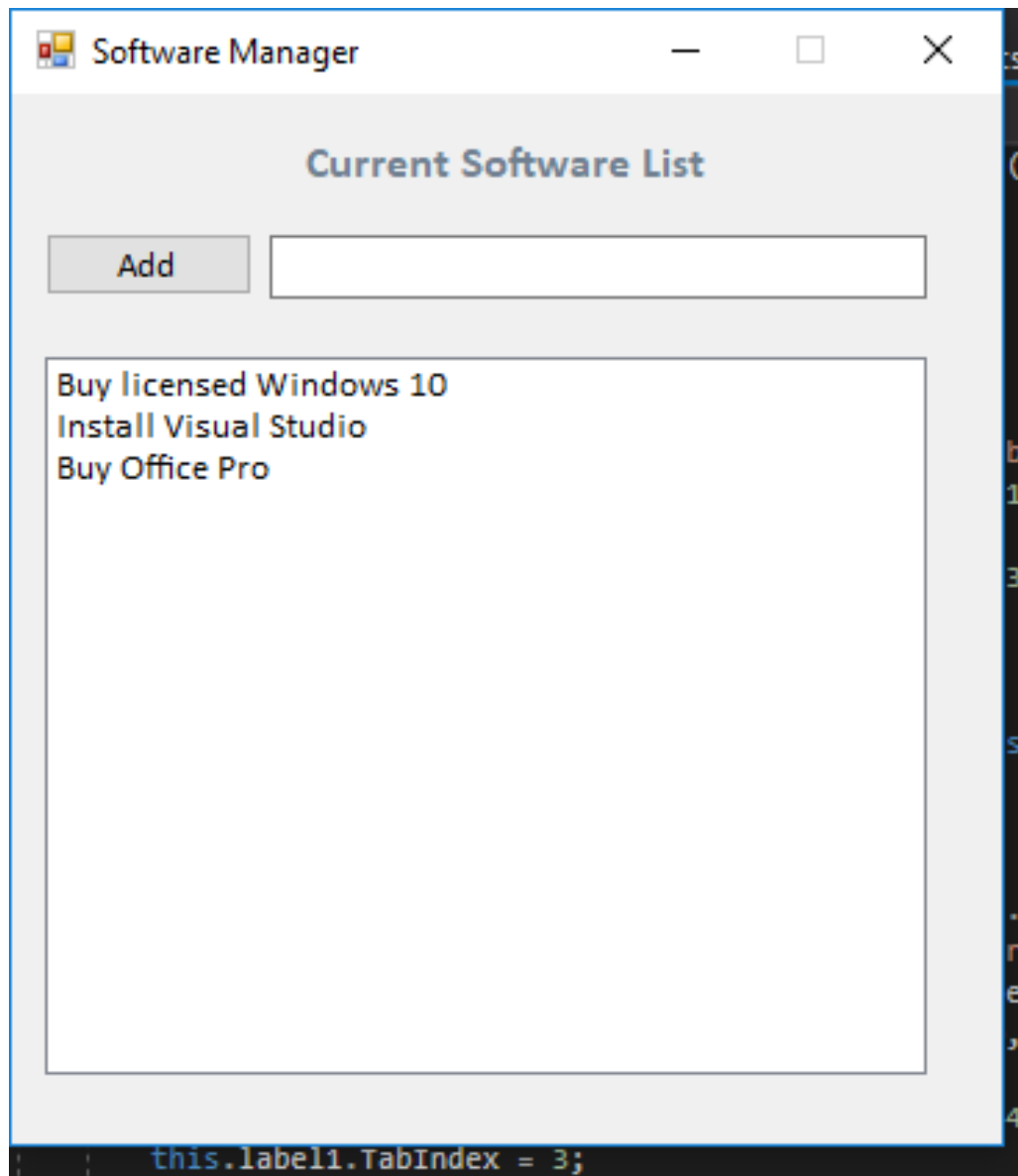- When program starts, it takes all the todo items from a file and puts them in list box.

Figure 1: The Windows application

Conclusion

During This lab work i rebuild one of my previous works in C++ language (a todo list). It is much comfortable and faster to program in C# as it's ready to create forms with visual designer. Inside the window, I have a list box where I add new todo items. There is possibilities to either add or remove an item from the todo list. Every item is locally saved in a file which makes it easy to keep track it.

References

[1] A set of 4 articles for creating a ToDo list in WPF: part1, part2, part3, part4