Laboratory Work Ko.2

WINDOWS PROGRAMMING

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In this laboratory work we improved our skills in working with icons, menu, scroll bar, keyboard combinations, list box, etc. In the following sections I described each feature, according to the required tasks.

1 Display a dialog box on some event (ex. on clicking some button)

I created the dialog box in the .rc file. I created a procedure that will handle the displaying of my dialog box - HelpProc(). Dialog box is appearing when I'm pressing the Help option from the menu. This is the part of code that makes it happen - DialogBox(hInstance, MAKEINTRESOURCE(IDD DIALOG), hwnd, HelpProc);

2 Add a system menu to your application with at least 3 items (add actions to that items)

The menu has been created in the .rc file. POPUP defines a menu item, MENUITEM - defines a submenu item. There were created three items: File / Exit - exits from the program, Options / Change background color, Help / Help - displaying info how to exit.

3 Add a scroll bar that will change any visible parameter of any other element (color of a text))

Using CreateWindowEx() I've created a scrollbar, by specifying the 2nd parameter as "SCROLLBAR" and a xPos variable that is changing the way messages in the $WM_H SCROLLarecalled. Color of the background is changing while scrolling the bar. For this I created the Dr

4 Hook keyboard input. Add 2 custom events for 2 different keyboard combinations

Hooks : CTRL + W for exiting from the application, and CTRL + H for displaying a dialog box. These actions are managed within the WM HOTKEY case.

5 Add a listbox and attach some events when any element is accessed (clicked)

By using CreateWindowEx() and by specifying the 2nd parameter as "LISTBOX" I've created the listbox . Elements in the listbox were added from the interaction between an editbox and a button. When an element from listbox is double-clicked, a messagebox is displayed asking whether to delete the item or not. By pressing yes - the item is deleted, no - otheswise.

6 Customize your application by adding an icon and using different cursor in application

A custom cursor and icon were added in the project root directory. Iconr were declared in the .rc file IDI ICON ICON DISCARDABLE "icon.ico" and ID CURSOR CURSOR DISCARDABLE "cursor.cur". Also I've changed the windowclass fields - hIcon, hIconSm, hCursor .

- *the gif image on how things were done is displayed in the README.md file.*