

NATIONAL AVIATION UNIVERSITY
FACULTY OF CYBERSECURITY, COMPUTER AND SOFTWARE
ENGINEERING
SOFTWARE ENGINEERING DEPARTMENT

Laboratory Work № 2

“Basic elements of Graphical User Interface”

Variant № 7

Prepared by:

Andrii Vynarchuk

Student of SE-226A

Checked by:

Oleksandr Shapoval

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Goal: to explore creation of different types of menus and working with keyboard.

Execution Order

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1. Create an interface as shown in Fig 1.1 using any of the technology stack. **You can create interface for desktop (Windows, Linux or MacOS), web or mobile (iOS, Android) application.** Requirements to the interface:
 - The File menu item has three commands: Message, Check, Exit.
 - The Help menu item includes one About command.
 - Selecting the Message command will open a message window (pop-up).
 - Selecting the Exit command will close the application (*for desktop and mobile apps*) or tab (*for web apps*).
 - Selecting the Check command will clear the check box next to that command and make the Message command unavailable. Selecting the Check command again will reverse the action.
 - Selecting the About command will display information about your application.
2. Create the necessary menu items with a list of commands and hot keys to call them.
3. For several basic functions, develop icons and create them using one of the graphic editors. When designing icons, use analogies and affordances well known to most potential users.
4. Create a context menu that repeats the File menu (*for desktop and mobile apps only*)
5. Set the ability to close the application (*for desktop and mobile apps*) or tab (*for web apps*) when pressing the CTRL+E keys.
6. Add to the created interface additional actions according to your variant (Table 1.1 below).

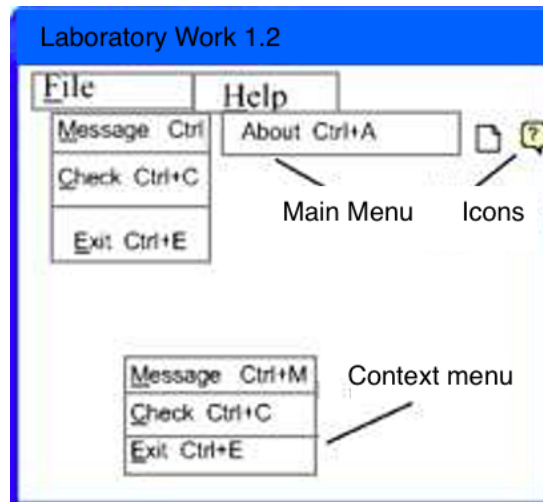


Fig. 1.1 Interface Prototype

Individual task by variant

7	When pressing the A key, <i>Edit</i> item is added to the menu between <i>File</i> and <i>Help</i> . When pressing the C key, <i>Edit</i> menu item is replaced with <i>Format</i> .
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Project code

The project is written in JavaScript library React and other JavaScript libraries. Project has dynamic typification (without TypeScript).

The main concept of React demands separation, so the project architecture is divided and large enough to take it into this report. So source code is at my [Github repository](#) and here I leave some parts of it. The hosted example of [web application can be found using this link](#).

Links repeat (if links above doesn't work):

GitHub Source Code: <https://github.com/De-Real/HCI-lab2>

Deployment web app: <https://de-real.github.io/HCI-lab2/>

Conclusions. I've successfully explored the creation of different types of menus and working with keyboard.