

SOFTWARE PROJECT PROGRAMMING FUNDAMENTALS

Graphic User Interface Python language

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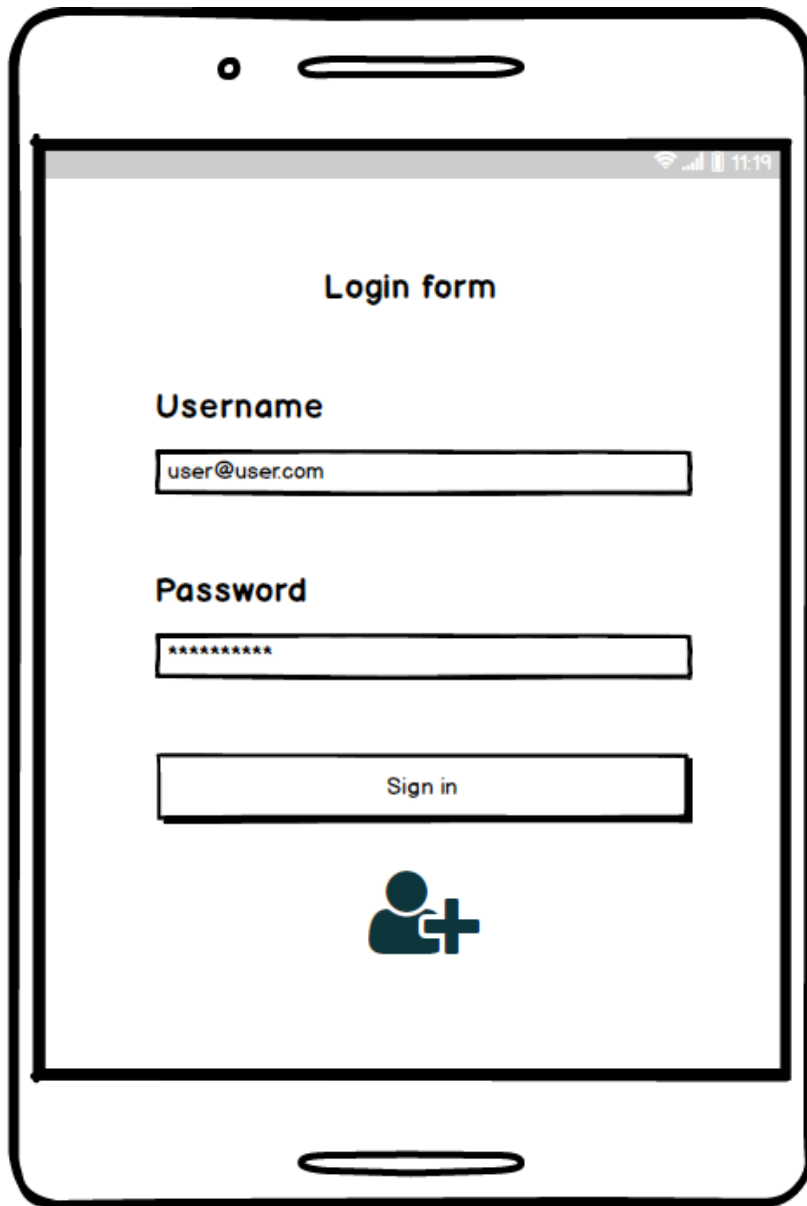


Figure 1. Login form

WINDOW 1.

Login form

1. Label: Form title.
2. Label: Username title.
3. Entry: It lets enter the e-mail or username.
4. Label: Password title.
5. Entry: It lets enter the user password.
6. Button: It calls a *validate_user()* function.
7. Button: It opens a new window [Register].

Validations:

- a. The Password field [Entry] must show the sign “*”. At least 5 characters.
- b. When the user presses the [Sign in] Button, it must execute the [validate_user()] function, and validate if the user exists. If don't, It must show a window message, else, It has to open a window with a BG image.
- c. When the user presses the [Sign up] Button, it must execute the [register_user_form()] function, and open a new window with the register form. [see Figure 2]. The [Sign up] Button has to be an image.

WINDOW 2.

Login form

Title: Window title + icon. 1.

Label: Firstname title. 2.

Entry: It lets enter the firstname. 3.

Label: Lastname title. 4.

Entry: It lets enter the firstname. 5.

Label: Lastname title. 6.

Entry: It lets enter the firstname. 7.

Label: Lastname title. 8.

Entry: It lets enter the firstname. 9.

Label: Lastname title. 10.

Entry: It lets enter the firstname. 11.

Button: It executes the `[register_user()]` function. 12.

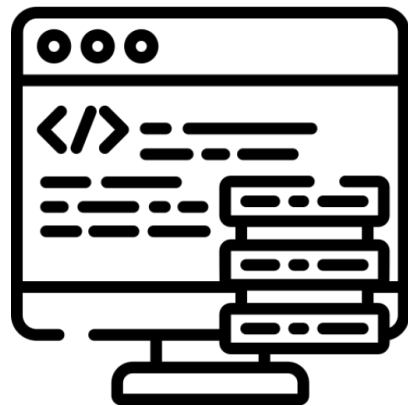
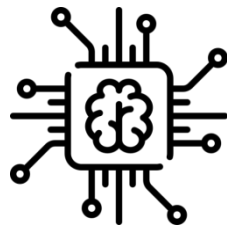
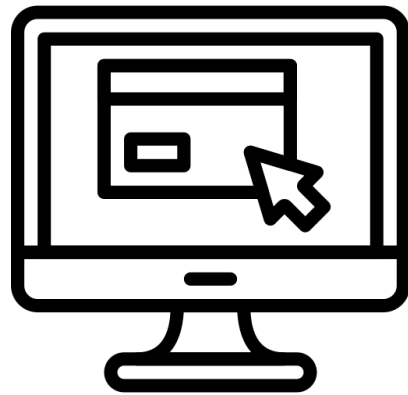
Validations:

- The Password field [Entry] must show the sign `"*"`. At least 5 characters.
- The information must be added into arrays. If the e-mail exists in the array, The information will not be added.
- See the next information in page 3 *.

The image shows a registration form titled "Register form". It contains the following elements:

- First name:** A text input field.
- Last name:** A text input field.
- Mobile:** A text input field.
- E-mail:** A text input field.
- Password:** A text input field with masked characters (asterisks).
- Register:** A yellow button with the text "Register".

Figure 2. Register form



Consider:

- a. The responses generated as a result of calling the functions, must be visualized at the Backend level from the terminal.

The project must be sent through UVIRTUAL until Monday June 10, 23:00 Hrs.

Architecture:

- 1.** Inputs: Graphic User Interface.
 - Windows
 - Labels
 - Entries
 - Buttons
- 2.** Processes: Functions and Validations.
 - `validate_user()`
 - `register_user()`
- 3.** Outputs: IDLE Python.
 - Console messages.