

▼ USER INTERFACE IN PYTHON (Jupyter)

```
class Python:
```

```
#
```

```
def myApp:
```

```
#here my code..
```



```
#
```

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#
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User interface in python (Terminal)

▼ User Interface

In the industrial design field of human-computer interaction, a user interface (UI) is the space where interactions between humans and machines occur. The goal of this interaction is to allow effective operation and control of the machine from the human end, whilst the machine simultaneously feeds back information that aids the operators' decision-making process. Examples of this broad concept of user interfaces include the interactive aspects of computer operating systems, hand tools, heavy machinery operator controls, and process controls. The design considerations applicable when creating user interfaces are related to, or involve such disciplines as, ergonomics and psychology.

Generally, the goal of user interface design is to produce a user interface which makes it easy, efficient, and enjoyable (user-friendly) to operate a machine in the way which produces the desired result (i.e. maximum usability). This generally means that the operator needs to provide minimal input to achieve the desired output, and also that the machine minimizes undesired outputs to the user.

User interfaces are composed of one or more layers, including a human-machine interface (HMI) that interfaces machines with physical input hardware such as keyboards, mice, or game pads, and output hardware such as computer monitors, speakers, and printers. A device that implements an HMI is called a human interface device (HID). Other terms for human-machine interfaces are man-machine interface (MMI) and, when the machine in question is a computer, human-computer interface. Additional UI layers may interact with one or more human senses, including: tactile UI (touch), visual UI (sight), auditory UI (sound), olfactory UI (smell), equilibrial UI (balance), and gustatory UI (taste).



https://en.wikipedia.org/wiki/User_interface

▼ My App

```

1 from google.colab import output # Get the module
2 from termcolor import colored
3
4
5 #global variables
6 user_up = ''
7 passw_up = ''
8 user = ''
9 passw = ''
10
11
12 def back():
13     print("\n")
14     back = str(input("Do you want back? (y/n): "))
15     back = back.lower()
16     if back == "y":
17         output.clear()
18         return main()
19     else:
20         output.clear()
21         quit()
22
23
24 def main():
25     global user_up, passw_up, user, passw
26
27     print("MyApp |   Home   |   Login   |   Register")
28     #salto de linea
29     print("\n")
30
31     nav = str(input("Nav: Home(h) | Login(i) | Register(u): "))
32     nav = nav.lower()
33
34     if nav == 'h' or nav == 'i' or nav == 'u':
35
36         if nav == 'h':
37             home = "HOME PAGE"
38             print("\n")
39             print(home.center(50, " "))
40             contact_you = "Please, contac you with the admin!"
41             print("\n")
42             print(contact_you.center(50, " "))
43             back()
44
45         elif nav == 'i':
46             #ENTER HERE DATA

```

```
46 msg = "ENTER USER DATA"
47 print("\n")
48 print(msg.center(50, " "))
49 print("\n")
50 user = str(input("Your User: "))
51 user = user.lower()
52 passw = str(input("Your Password: "))
53 passw = passw.lower()
54
55 if user == user_up and passw == passw_up:
56     output.clear()
57
58     print("MyApp | Home | Login | Register")
59     #salto de linea
60     print("\n")
61
62     wellcome = "WELLCOME TO MY PYTHON APP"
63     hello = "Hello " + user
64     print("\n")
65     print(wellcome.center(50, "="))
66     print("\n")
67     print(hello.center(50, " "))
68     back()
69 else:
70     print("\n")
71     print(colored('Your data is wrong!', 'red'))
72     back()
73
74 elif nav == 'u':
75     msg = "REGISTER USER"
76     print("\n")
77     print(msg.center(50, " "))
78     print("\n")
79     user_re = user_up
80     user_up = str(input("Your User: "))
81     user_up = user_up.lower()
82
83     if user_up == user_re:
84         print("\n")
85         print(colored('This user already exists!', 'red'))
86         back()
87
88     passw_up = str(input("Your Password: "))
89     passw_re = str(input("Repeat Password: "))
90
91     if passw_up != passw_re:
92         print("\n")
93         print(colored('Passwords do not match!', 'red'))
94         back()
95
96     print("\n")
97     print(colored('Registered user successfully!', 'green'))
```

```
98     back()
99
100    elif nav != 'h' or nav != 'i' or nav != 'u':
101        error_page = "Oops! Page not found!"
102        er_404 = "404"
103        print("\n")
104        print(colored(error_page.center(50, " "), 'red'))
105        print("\n")
106        print(er_404.center(50, " "))
107        back()
108
109    main()
110
```