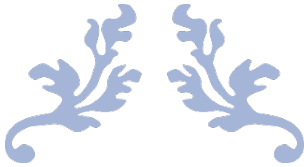
GLOBAL INDIAN INTERNATIONAL SCHOOL – SMART CAMPUS



MEAL ORDER SYSTEM

COMPUTER SCIENCE – PROJECT REPORT FILE

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Introduction

The Meal Order System In Python is a simple project developed using Python. The project contains only the admin side. The admin side manages all the orders, payment process, bill report, and so on. Thus, this is a digital way of management of the meal order and also the payment system. Also, the design of this system is pretty simple so that the user won't get any difficulties while working on it. This program helps to ease the process of ordering a meal. Both for the user and the admin. Though in its initial stages of development it is very efficient.

Detailed Description

This program uses various functions and imports that help to build such and efficient program. There is use of tuples and lists consistently throughout the program. Almost the whole program is quite intermediate in level thus allowing any curious user or aspiring programmer to understand. We have used techniques of printing a certain text repeatedly to help achieve the graphical part of this program. At times we have imported various commands so as to make the code more user friendly. We have defined various functions so as to reduce the amount of actual code present. The designing of the menu has been done by the use of simple print commands that allows the program to look more attractive. We have used the " IF loop " to do various numerical functions and also to take the right input from the user. There is the use of a " FOR loop " to help show the delivery progress using a command known as " TQDM ". This command helps us to repeat iterations without printing them again and again thus making the output clean and clear for both admin and user.

Technical Description

To make this program we have used “ Jupyter Notebook ” as this program helps us to individually run parts of the code and makes us to use many functions more easily as compared to “ IDLE ”. The functions like “ TQDM ” are easier to incorporate here due to its compatibility over this platform. Throughout this program we have used python version 3 thus enabling this programs’ compatibility over many operating systems. This program has mainly been programmed on Windows operating software version 10 and MacOS Mojave. The program has been able to run on both OS including Linux. But as the makers of this program we advise to run this program on MacOS as it is easier on the programming side. Also instead of using IDLE we advise the users to use Jupyter Notebook of Anaconda to help view the whole functionality of this program.

Program Code (Python)

```
%%capture
from tqdm import tqdm_notebook as tqdm
tqdm().pandas()

def launch_application():
    ask_address()
    ask_option()


def ask_address():
    global address
    address = input('''----------------------------------
Dear Customer, welcome.

Please enter the address
where you want your food delivered: ''')

def ask_option():
    option = input('''----------------------------------
Do you want to view:

1) The Deals of the Day
2) Menu

Enter your choice here [ (1) or (2) ]: ''')
    if int(option) == 1:
        deals()
    elif int(option) == 2:
        menu()
    else:
        print("Please enter a valid option.")
        ask_option()

def deals():
    print("----------------------------------")
    print("Deals of the Day: ")
    print(" _____________________________________________________________")
    print("| Item No |   Item Description   |  Cost  |  Deals  |")
    print("|         |                      |        |         |")
    print("| 1       | Soup                 | Rs 200 |  Rs 100 |")
    print("|         |                      |        |         |")
    print("| 2       | Gobi Manchurian      | Rs 300 |  Rs 200 |")
    print("|         |                      |        |         |")
    print("| 3       | Gobi Chilly          | Rs 400 |  Rs 300 |")
```

```
    print("|        |                  |       |        |")
    print("| 4      | Veg Fried Rice      | Rs 500 |  Rs 400 |")
    print("|        |                  |       |        |")
    print("| 5      | Veg Noodles        | Rs 600 |  Rs 500 |")
    print("|        |                  |       |        |")
    print("| 6      | Paneer Chilly       | Rs 550 |  Rs 450 |")
    print("|        |                  |       |        |")
    print("| 7      | Babycorn Manchurian  | Rs 450 |  Rs 350 |")
    print("|        |                  |       |        |")
    print("| 8      | Paneer Fried Rice    | Rs 350 |  Rs 250 |")
    print("|        |                  |       |        |")
    print("| 9      | Shangai Fried Rice   | Rs 250 |  Rs 150 |")
    print("|        |                  |       |        |")
    print("| 10     | Babycorn Chilly     | Rs 99  |  Rs 50  |")
    print(" _____________________________________________________ ")
    print("These Deals have aldready been applied to the menu.")
    print(" ")
    inp = int(input("To order items from the menu, enter (1): "))
    if inp == 1:
        menu()
    else:
        print("Please enter a valid option.")
        deals()



def menu():
    global menu_dict
    menu_dict = {1 : "Soup",
                 2 : "Gobi Manchurian",
                 3 : "Gobi Chilly",
                 4 : "Veg Fried Rice",
                 5 : "Veg Noodles",
                 6 : "Paneer Chilly",
                 7 : "Babycorn Manchurian",
                 8 : "Paneer Fried Rice",
                 9 : "Shangai Fried Rice",
                 10 : "Babycorn Chilly"}
    print("-----------------------------------")
    print("Menu: ")
    print(" _____________________________________________ ")
    print("| Item No |   Item Description   |  Cost  |")
    print("|        |                  |       |")
    print("| 1      | Soup              | Rs 100 |"  )
    print("|        |                  |       |")
    print("| 2      | Gobi Manchurian      | Rs 200 |"  )
    print("|        |                  |       |")
```

```
    print("| 3      | Gobi Chilly         | Rs 300 |"  )
    print("|        |                     |        |")
    print("| 4      | Veg Fried Rice      | Rs 400 |"  )
    print("|        |                     |        |")
    print("| 5      | Veg Noodles         | Rs 500 |"  )
    print("|        |                     |        |")
    print("| 6      | Paneer Chilly       | Rs 450 |"  )
    print("|        |                     |        |")
    print("| 7      | Babycorn Manchurian  | Rs 350 |"  )
    print("|        |                     |        |")
    print("| 8      | Paneer Fried Rice    | Rs 250 |"  )
    print("|        |                     |        |")
    print("| 9      | Shangai Fried Rice   | Rs 150 |"  )
    print("|        |                     |        |")
    print("| 10     | Babycorn Chilly      | Rs 50  |"  )
    print(" _____________________________________________ ")
    selected_items = input('''Select the items that you wish to order
by entering the Item Numbers here, separated by a space: ''')
    global selitelist
    selitelist = selected_items.split()
    print(" ")
    print("You have selected Items No.", selitelist)
    print(" ")
    remove_items = input('''Do you want to remove any items you have added by mistake?
If so, enter the Item Number below.
Else, enter 'No': ''')
    reitelist = remove_items.split()
    if remove_items.lower() != "no":
        for i in reitelist:
            selitelist.remove(str(i))
            print(" ")
            print("Item No.", i,"removed.")
        print(" ")
        print("You have selected Items No.", selitelist)
    print(" ")
    add_items = input('''Do you want to add any items that you may have forgotten?
If so, enter the Item Number below.
Else, enter 'No': ''')
    additelist = add_items.split()
    if add_items.lower() != "no":
        for i in additelist:
            selitelist.append(str(i))
            print(" ")
            print("Item No.", i,"added.")
        print(" ")
        print("You have selected Items No.", selitelist)
```

```
def reciept():
   rece = {"Soup" : 100,
         "Gobi Manchurian" : 200,
         "Gobi Chilly" : 300,
         "Veg Fried Rice" : 400,
         "Veg Noodles" : 500,
         "Paneer Chilly" : 450,
         "Babycorn Manchurian" : 350,
         "Paneer Fried Rice" : 250,
         "Shangai Fried Rice" : 150,
          "Babycorn Chilly" : 50}
   print(" ")
   print("-----------------------------------")
   print("            RECIEPT            ")
   print("-----------------------------------")
   total = 0
   for i in selitelist:
      key = (menu_dict[int(i)])
      print(i,"|", key, "|", "Rs",rece[key])
      print(" ")
      total = int(rece[key]) + total
   print("-----------------------------------")
   print("Your total is: Rs",total )
   print("-----------------------------------")
   print(" ")
   print("Thank You for ordering with us.")
   print("Your order will be delivered to", address,".")
   print(" ")
   print("We currently only accept 'Cash on Delivery'.")
   print("Sorry for the inconvience.")
   print(" ")
   import datetime
   now = datetime.datetime.now()
   print ("Current date and time of order: ")
   print (now.strftime("%d-%m-%Y %H:%M:%S"))

launch_application()
reciept()

print("Delivery Progress")

import tqdm
import time
for i in tqdm.tqdm(range(100)):
   time.sleep(1.0)
```

Screenshots

1. The introduction to the program :-

```
---------------------------------
Dear Customer, welcome.

Please enter the address
where you want your food delivered: 27 Punggol Field Walk

---------------------------------
Do you want to view:

1) The Deals of the Day
2) Menu

Enter your choice here [ (1) or (2) ]: 1
```

2. Menu display :-

```
-----------------------------------
Deals of the Day:
```

Item No	Item Description	Cost	Deals
1	Soup	Rs 200	Rs 100
2	Gobi Manchurian	Rs 300	Rs 200
3	Gobi Chilly	Rs 400	Rs 300
4	Veg Fried Rice	Rs 500	Rs 400
5	Veg Noodles	Rs 600	Rs 500
6	Paneer Chilly	Rs 550	Rs 450
7	Babycorn Manchurian	Rs 450	Rs 350
8	Paneer Fried Rice	Rs 350	Rs 250
9	Shangai Fried Rice	Rs 250	Rs 150
10	Babycorn Chilly	Rs 99	Rs 50

```
These Deals have aldready been applied to the menu.
```

3. Ordering of Food :-

```
To order items from the menu, enter (1): 1
-----------------------------------
Menu:
```

Item No	Item Description	Cost
1	Soup	Rs 100
2	Gobi Manchurian	Rs 200
3	Gobi Chilly	Rs 300
4	Veg Fried Rice	Rs 400
5	Veg Noodles	Rs 500
6	Paneer Chilly	Rs 450
7	Babycorn Manchurian	Rs 350
8	Paneer Fried Rice	Rs 250
9	Shangai Fried Rice	Rs 150
10	Babycorn Chilly	Rs 50

```
Select the items that you wish to order
by entering the Item Numbers here, separated by a space: 1 2 3
```

4. Error checking for the user :-

```
Do you want to remove any items you have added by mistake?
If so, enter the Item Number below.
Else, enter 'No': No

Do you want to add any items that you may have forgotten?
If so, enter the Item Number below.
Else, enter 'No': No
```

5. Reciept and delivery progress :-

```
-----------------------------------
               RECIEPT
-----------------------------------
1 | Soup | Rs 100

2 | Gobi Manchurian | Rs 200

3 | Gobi Chilly | Rs 300

-----------------------------------
Your total is: Rs 600
-----------------------------------

Thank You for ordering with us.
Your order will be delivered to 27 Punggol Field Walk .

We currently only accept 'Cash on Delivery'.
Sorry for the inconvience.

Current date and time of order:
19-01-2020 15:34:30
Delivery Progress
 35%|███▌       | 35/100 [00:35<01:05,  1.00s/it]
```