PIZZA RETAIL SYSTEM

PROJECT J.J.J.

- ARYAN JAIN MANAV JAIN SIDDHARATHA JAISWAL

CONTENTS

SYNOPSIS	3
INPUTS	4
OUTPUTS	6
CONCEPTS	7
INITIALISE PROGRAM	8
MAIN MENU PROGRAM	12
OUTPUT OF THE MAIN PROGRAM	35

SYNOPSIS

Nowadays, pizza delivery systems of various global food chains is becoming increasingly incompetent and redundant. Thus, we decided to create a pizza delivery system which will be retail-based and will allow the company to place orders, modify menu and keep a tab on inventory.

INPUTS

FUNCTION 1:

Main Menu

- Place Order
- Modify Menu and View Inventory

FUNCTION 2:

Place an Order

- Name
- Address
- Quantity of Same Pizza
- Size
- Crust
- Cheese
- Topping
- Order more different pizzas

FUNCTION 3:

Modify Menu and View Inventory

- View Inventory
- Add or replace new product
- Update cost price or selling price

OUTPUTS

FUNCTION 1:

Main Menu

• Function entered

FUNCTION 2:

Place an Order

• Price of the final order.

FUNCTION 3:

Modify Menu and View Inventory

• Inventory Table

CONCEPTS

Concepts Learned In Class:

- Basics of python
- Basics of SQL

Concepts Learned On Our Own:

Python-SQL integration

INTIALISE PROGRAM

```
import sqlite3
connection = sqlite3.connect("Order_Placed.db")
crsr = connection.cursor()
```

```
# Creating Inventory and Menu Table
sql_command = """CREATE TABLE inventory (
menu_id INTEGER NOT NULL,
ingredient VARCHAR(20) NOT NULL,
qty INTEGER(3) NOT NULL,
cost_price integer(4) NOT NULL,
```

```
sell_price integer(4) not null);"""
crsr.execute(sql_command)
# Inserting default values into Inventory table
sql_command = """INSERT INTO inventory
VALUES
(1, '10" - Thin', 100, 60, 69),
(2, '10" - Regular', 100, 50, 57.5),
(3, '10" - Cheezy', 100, 70, 80.5),
(4, '12" - Thin', 100, 70, 69),
(5, '12" - Regular', 100, 60, 57.5),
(6, '12" - Cheezy', 100, 80, 80.5),
(7, '14" - Thin', 100, 80, 69),
(8, '14" - Regular', 100, 70, 57.5),
(9, '14" - Cheezy', 100, 90, 80.5),
(10, "Cheese -> Fat - Free", 100, 50, 57.5),
(11, "Cheese -> Vegan", 100, 40, 46),
```

```
(12, "Cheese -> Extra", 100, 30, 34.5),
(13, "Cheese -> Regular", 100, 20, 23),
(14, "Onion", 100, 10, 11.5),
(15, "Olives", 100, 10, 11.5),
(16, "Jalapeno", 100, 15, 17.25),
(17, "Red Paprika", 100, 15, 17.25),
(18, "Tomato", 100, 5, 5.75),
(19, "Corn", 100, 5, 5.75),
(20, "Capsicum", 100, 5, 5.75),
(21, "Mushroom", 100, 10, 11.5);"""
crsr.execute(sql command)
# Creating Pizza Order Table
sql command = """CREATE TABLE pizza (
customer id INTEGER PRIMARY KEY AUTOINCREMENT,
name VARCHAR(20) NOT NULL,
address VARCHAR(100) NOT NULL,
pizza_size INTEGER(2) NOT NULL,
```

```
crust CHAR(7) NOT NULL,
topping_1 CHAR(11),
topping_2 CHAR(11),
topping_3 CHAR(11),
cheese CHAR(10) NOT NULL,
quantity INTEGER(2) NOT NULL,
order_date DATE NOT NULL);"""
crsr.execute(sql_command)
connection.commit()
connection.close()
```

MAIN MENU PROGRAM

```
import sqlite3
from datetime import datetime
from datetime import date
from datetime import timedelta
```

```
def prRed(skk): print("\033[91m
{}\033[00m" .format(skk))

def prGreen(skk): print("\033[92m
{}\033[00m" .format(skk))

def prYellow(skk): print("\033[93m
{}\033[00m" .format(skk))

def prLightPurple(skk): print("\033[94m
{}\033[00m" .format(skk))
```

```
def prPurple(skk): print("\033[95m
{}\033[00m" .format(skk))
def prCyan(skk): print("\033[96m
{}\033[00m" .format(skk))
def prLightGray(skk): print("\033[97m
{}\033[00m".format(skk))
def prBlack(skk): print("\033[98m
{}\033[00m" .format(skk))
def main_menu():
     while True:
       string = "**** WELCOME TO J.J.J. PIZZA SYSTEM
(ALPHA VERSION 2.0) *****".center(160, ' ')
       print('\n')
       prYellow(string)
       string1 = "
                    Brought to you by -
```

```
| ARYAN JAIN | SIDDHARATHA JAISWAL | MANAV JAIN
|'''.center(300, ' ')
        print('\n')
        prLightGray(string1)
        prCyan("""\n\nSelect a command below \n\n1. Place
an order \n2. View inventory and modify menu """)
        prLightPurple('\nEnter the function based on the
numbers above: ')
        print()
        Main_choice = input()
        if Main choice=="1":
          connection = sqlite3.connect("Order Placed.db")
          crsr = connection.cursor()
          def order():
                Sum=0
```

```
string1 = "***** PLACE AN ORDER
*****".center(160, ' ')
                print('\n')
                prYellow(string1)
           #NAME
                while True:
                     prCyan('\nEnter Name: ')
                     print()
                     Name = input()
                     if Name.isdigit() or Name == "":
                        prRed("\nInvalid Name")
                     else:
                        break
           #ADDRESS
                while True:
                     prCyan('\nEnter Address: ')
                     print()
                     Address = input()
                     if Address != "":
                        break
```

```
else:
                        prRed('\nInvalid Address')
           #QUANTITY
                while True:
                     try:
                        prCyan('\n\nHow many pizzas of
the same type would you be ordering: ')
                        print()
                        Qty = float(input())
                     except:
                        prRed("\nInvalid Quantity")
                     else:
                        break
           #SIZE AND CRUST
                prCyan("'\n\n\nChoose a size below\n
\n1. 10\" \n2. 12\" \n3. 14\"'')
                while True:
                     prPurple('\nEnter size based on the
numbers above: ')
                     print( )
```

```
Size = input()
                     if Size == '1':
                        Size = 10
                        prCyan("'\n\n\nChoose a crust
below \n\n1. Thin \n2. Regular \n3. Cheezy''')
                        while True:
                             prPurple('\nEnter crust based
on the numbers above: ')
                             print()
                             Crust = input()
                             if Crust == "1":
                                Crust = "Thin"
                                crsr =
connection.execute("SELECT sell_price from inventory
WHERE menu_id=1")
connection.execute(f"'UPDATE inventory SET qty = qty-
{Qty} WHERE menu_id=1''')
                                break
                             elif Crust == "2":
                                Crust = "Regular"
```

```
crsr =
connection.execute("SELECT Sell_price from inventory
WHERE menu_id=2")
connection.execute(f"'UPDATE inventory SET qty = qty-
{Qty} WHERE menu_id=2''')
                                break
                             elif Crust == "3":
                                Crust = "Cheezy"
crsr=connection.execute("SELECT Sell_price from inventory
WHERE menu_id=3")
connection.execute(f"'UPDATE inventory SET qty = qty-
{Qty} WHERE menu id=3''')
                                break
                             elif Crust == "":
                                prRed("\nInvalid Crust")
                             else:
                                prRed('\nInvalid Crust')
                        rows = crsr.fetchall()
                        for row in rows:
```

```
Temp = int(row[0])
                          Sum += Temp
                        break
                     elif Size == '2':
                        Size = 12
                        prCyan("'\n\n\nChoose a crust
below \n\n1. Thin \n2. Regular \n3. Cheezy''')
                        while True:
                             prPurple('\nEnter crust based
on the numbers above: ')
                             print()
                             Crust = input()
                             if Crust == "1":
                                Crust = "Thin"
crsr=connection.execute("SELECT Sell_price from inventory
WHERE menu id=4")
connection.execute(f"'UPDATE inventory SET qty = qty-
{Qty} WHERE menu id=4''')
                                break
                             elif Crust == "2":
```

```
Crust = "Regular"
```

crsr=connection.execute("SELECT Sell_price from inventory
WHERE menu_id=5")

connection.execute(f"UPDATE inventory SET qty = qty-{Qty} WHERE menu_id=5"")

break

elif Crust == "3":

Crust = "Cheezy"

crsr=connection.execute("SELECT Sell_price from inventory
WHERE menu_id=6")

connection.execute(f'''UPDATE inventory SET qty = qty-{Qty} WHERE menu_id=6''')

break

elif Crust == "":

prRed("\nInvalid Crust")

else:

prRed('\nInvalid Crust')

rows = crsr.fetchall()

```
for row in rows:
                          Temp = int(row[0])
                          Sum += Temp
                        break
                     elif Size == '3':
                        Size = 14
                        prCyan(""\n\n\nChoose a crust
below \n\n1. Thin \n2. Regular \n3. Cheezy''')
                        while True:
                             prPurple('\nEnter crust based
on the numbers above: ')
                             print()
                             Crust = input()
                             if Crust == "1":
                                Crust = "Thin"
crsr=connection.execute("SELECT Sell_price from inventory
WHERE menu_id=7")
connection.execute(f"'UPDATE inventory SET qty = qty-
{Qty} WHERE menu_id=7''')
                                break
```

```
Crust = "Regular"
crsr=connection.execute("SELECT Sell_price from inventory
WHERE menu id=8")
connection.execute(f"'UPDATE inventory SET qty = qty-
{Qty} WHERE menu_id=8''')
                               break
                             elif Crust == "3":
                               Crust = "Cheezy"
crsr=connection.execute("SELECT Sell_price from inventory
WHERE menu_id=9")
connection.execute(f"'UPDATE inventory SET qty = qty-
{Qty} WHERE menu_id=9''')
                               break
                             elif Crust == "":
                               prRed("\nInvalid Crust")
                             else:
                               prRed('\nInvalid Crust')
```

elif Crust == "2":

```
rows = crsr.fetchall()
                        for row in rows:
                           Temp = int(row[0])
                           Sum += Temp
                        break
                      elif Size == "":
                        prRed('\nInvalid Size')
                      else:
                        prRed('\nInvalid size')
           #CHEESE
                prCyan("'\n\n\nChoose a cheese below
\n\n1. Fat-free \n2. Vegan \n3. Extra \n4. Regular''')
                while True:
                      prPurple('\nEnter cheese based on the
numbers above: ')
                      print()
                      Cheese = input()
                      if Cheese == '1':
                        Cheese = "Fat-free"
```

```
crsr=connection.execute("SELECT
Sell price from inventory WHERE menu id=10")
                       connection.execute(f"'UPDATE
inventory SET qty = qty-{Qty} WHERE menu_id=10''')
                       break
                     elif Cheese == '2':
                       Cheese = "Vegan"
                       crsr=connection.execute("SELECT
Sell price from inventory WHERE menu id=11")
                       connection.execute(f"'UPDATE
inventory SET qty = qty-{Qty} WHERE menu_id=11''')
                       break
                    elif Cheese == '3':
                       Cheese = "Extra"
                       crsr=connection.execute("SELECT
Sell price from inventory WHERE menu id=12")
                       connection.execute(f"'UPDATE
inventory SET qty = qty-{Qty} WHERE menu_id=12''')
                       break
                    elif Cheese == '4':
                       Cheese = "Regular"
```

```
crsr=connection.execute("SELECT
Sell price from inventory WHERE menu id=13")
                       connection.execute(f'"UPDATE
inventory SET qty = qty-{Qty} WHERE menu_id=13''')
                       break
                     elif Cheese == "":
                       prRed('\nInvalid Cheese')
                     else:
                       prRed('\nInvalid Cheese')
               rows = crsr.fetchall()
               for row in rows:
                  Temp = int(row[0])
                  Sum += Temp
                print('\n\n\n')
          #TOPPINGS
               Toppings = {1:"Onion", 2:"Olives",
3:"Jalapeno", 4:"Red Paprika", 5:"Tomato", 6:"Corn",
7:"Capsicum", 8:"Mushroom",
```

9:None}

```
cursor = connection.execute("SELECT
ingredient from inventory where menu_id between 14 and
21")
                Tempo = 1
                prCyan("Choose toppings from below: (Upto
3)")
                for row in cursor:
                  prCyan(str(Tempo) + ". " + row[0])
                  Tempo += 1
                while True:
                     Topping = []
                     i = 0
                     while i < 3:
                        prPurple('\nEnter toppings based
on the numbers above: ')
                        print()
                        Topping input = input()
                        if Topping input == "1" or
Topping_input == "2" or Topping_input == "3" or
Topping input == "4" or Topping input == "5" or
Topping_input == "6" or Topping_input == "7" or
Topping_input == "8" or Topping_input == "9":
```

```
Topping_input =
int(Topping input)
                          Topping_input += 13
                          crsr.execute(f"'UPDATE
inventory SET qty = qty- {Qty} WHERE
menu_id={str(Topping_input)}''')
crsr=connection.execute("SELECT Sell_price from inventory
WHERE menu_id=" + str(Topping_input))
                          rows = crsr.fetchall()
                          for row in rows:
                            Temp=row[0]
                            Sum+=Temp
Topping.append(Toppings[int(Topping_input)-13])
                          i+=1
                       else:
                          prRed("\nInvalid Topping")
                    break
               Sum*=Qty
               now = datetime.now()
```

```
current time =
now.strftime("%H:%M+30:%S")
          #MONEY -> AMOUNT DUE
               # entering the values into the SQL table
               # TODO: Possible error here with SQL
connection?
               crsr.execute("INSERT INTO pizza
(name,address,pizza_size,crust,topping_1,topping_2,topping
_3,cheese,quantity,order_date)
VALUES(?,?,?,?,?,?,?)",(Name,Address,Size,Crust,Toppi
ng[0],Topping[1],Topping[2],Cheese,Qty,now))
               Sum *= Qty
               prGreen(f"'\n\nYour total amount due is:
Rs{Sum}''')
          #MORE PIZZAS
               while True:
                    prCyan("\n\nDo you want to order
more pizzas that are different \n\nEnter 'YES' or 'NO': ")
                    print()
```

diff = input()

```
if diff.lower() == "yes":
                        print("\n\n\n")
                        order()
                     elif diff.lower() == "no":
                        time 30 = datetime.now() +
timedelta(minutes=30)
                        final time = time 30.isoformat('',
'seconds')
                        prGreen(f'"\n\nYour order will be
deliverd to you within 30 minutes at {final_time} \n\nHave
a good day. \nThank you.''')
                        break
                      else:
                        prRed("\nInvalid Answer")
                        continue
                      break
          order()
           sql_command = "'SELECT ingredient, sell_price
from inventory, pizza
             WHERE pizza.customer_id = (SELECT
MAX(customer_id) from pizza) and crust = ingredient or
```

```
topping_1 = ingredient or topping_2 = ingredient or
topping 3 = ingredient or cheese = ingredient
             111
          cursor = connection.execute(sql_command)
          connection.commit()
          connection.close()
          # Enter whole code of order
        elif Main choice=="2":
          string1 = "***** VIEW INVENTORY & MODIFY
MENU *****".center(160, ' ')
          print('\n')
          prYellow(string1)
          # id, ingredient, qty
          def inventory():
                connection =
sqlite3.connect("Order_Placed.db")
                connection.execute(f'"UPDATE inventory
SET qty= 100 WHERE qty<=15''')
```

```
crsr=connection.execute("SELECT menu_id,
ingredient, gty from INVENTORY")
              rows = crsr.fetchall()
              for row in rows:
                if row[2]<=15:
                  print(f'''Quantity of {row[1]} is less
than 15. Ordering more'")
              while True:
                print('\n\n')
                prCyan("-----
                prCyan("| ID | INGREDIENT |
QUANTITY | COST PRICE | SELL PRICE |")
                prCyan("-----
-----")
                cursor = connection.execute("SELECT *
from inventory")
                for row in cursor:
                  print(" |", row[0], " "*(3 -
len(str(row[0]))),
                  "|", row[1], " "*(23 - len(row[1])),
```

```
"|", row[2], " "*(7 - len(str(row[2]))),
                      "|", row[3], " "*(9 - len(str(row[3]))),
                      "|", row[4], " "*(9 -
len(str(row[4]))),"|")
                   print('\n')
                    prCyan("\nWould you like to modify the
menu \n\nEnter 'YES' or 'NO': ")
                    print()
                    menu_input = input()
                    if menu_input.lower() == "yes" :
                      prCyan("\nPlease enter the ingredient
you would like to add: ")
                      print()
                      new_ingredient = input()
                      print('\n\n')
                      if new_ingredient.isdigit() or
new_ingredient == "":
                         prRed("\nInvalid Input")
                      prCyan("\nPlease enter the new cost
price of the ingredient: ")
```

```
print()
                      new_cp = input()
                      print('\n\n')
                      if new cp.isalpha() or new cp == "":
                         prRed("\nInvalid Input")
                      prCyan("\nPlease enter the new
selling price of the ingredient: ")
                      print()
                      new_sp = input()
                      print('\n\n')
                      if new_sp.isalpha() or new_sp == "":
                         prRed("\nInvalid Input")
                      prCyan("\nPlease enter the name of
the ingredient you would like to replace: ")
                      print()
                      old_ingredient = input()
                      print('\n\n')
                      if old_ingredient.isdigit() or
old ingredient == "":
                         prRed("\nInvalid Input")
```

```
crsr.execute("UPDATE inventory SET
ingredient = ?, qty = 100, cost_price = ?, sell_price = ?
WHERE ingredient
= ?",(new_ingredient,float(new_cp),float(new_sp),old_ingre
dient))
                  elif menu_input.lower() == "no":
                     prPurple("\n\nHave a good day.
\nThank you.")
                     break
                  else:
                     prRed("\nInvalid Input")
                connection.commit()
                connection.close()
          inventory()
        else:
          prRed("\nInvalid Input")
main_menu()
```

OUTPUT OF THE MAIN MENU PROGRAM

```
***** WELCOME TO J.J.J. PIZZA SYSTEM (ALPHA VERSION 2.0) *****

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```

```
Select a command below

1. Place an order

2. View inventory and modify menu

Enter the function based on the numbers above:

1
```

***** PLACE AN ORDER *****

```
Enter Name:
Aryan
Enter Address:
ATS
How many pizzas of the same type would you be ordering:
Choose a size below
1. 10"
2. 12"
3. 14"
Enter size based on the numbers above:
Choose a crust below
1. Thin
2. Regular
3. Cheezy
Enter crust based on the numbers above:
```

```
Choose a cheese below

    Fat-free

Vegan
Extra
Regular
Enter cheese based on the numbers above:
Choose toppings from below: (Upto 3)
 1. Onion
2. Green Olives
3. Jalapeno
4. Red Paprika
5. Tomato
6. Corn
7. Capsicum
8. Mushroom
Enter toppings based on the numbers above:
Your total amount due is: Rs4300.0
```

```
Do you want to order more pizzas that are different

Enter 'YES' or 'NO':

YES

****** PLACE AN ORDER *****

Enter Name:

Sid

Enter Address:

ATS

How many pizzas of the same type would you be ordering:

2

Choose a size below

1. 10"

2. 12"

3. 14"

Enter size based on the numbers above:
```

```
Choose a crust below

1. Thin
2. Regular
3. Cheezy

Enter crust based on the numbers above:

2

Choose a cheese below

1. Fat-free
2. Vegan
3. Extra
4. Regular

Enter cheese based on the numbers above:

2
```

```
Choose toppings from below: (Upto 3)
1. Onion
2. Green Olives
3. Jalapeno
4. Red Paprika
5. Tomato
6. Corn
7. Capsicum
8. Mushroom
Enter toppings based on the numbers above:
Enter toppings based on the numbers above:
Enter toppings based on the numbers above:
Your total amount due is: Rs481.0
Do you want to order more pizzas that are different
Enter 'YES' or 'NO':
NO
Your order will be deliverd to you within 30 minutes at 2020-02-02 20:52:00
Have a good day.
Thank you.
```

```
***** WELCOME TO J.J.J. PIZZA SYSTEM (ALPHA VERSION 2.0) *****

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Select a command below

1. Place an order
2. View inventory and modify menu

Enter the function based on the numbers above:
```

```
Please enter the new cost price of the ingredient:

15

Please enter the new selling price of the ingredient:

17.5

Please enter the name of the ingredient you would like to replace:
Olives
```

ID	INGREDIENT	QUANTITY	COST PRICE	SELL PRICE		
1	10" - Thin	90	60	69		
2	10" - Regular	95	50	57.5		
j 3 i	10" - Cheezy	100	70	80.5		
i 4 i	12" - Thin	100	70	69		
j 5 i	12" - Regular	98	60	57.5		
j 6	12" - Cheezy	100	80	80.5		
j 7 j	14" - Thin	100	80	69		
8	14" - Regular	100	70	57.5		
j 9 j	14" - Cheezy	100	90	80.5		
10	Cheese -> Fat - Free	90	50	57.5		
11	Cheese -> Vegan	98	40	46		
12	Cheese -> Extra	95	30	34.5		
13	Cheese -> Regular	100	20	23		
14	Onion	100	10	11.5		
15	Green Olives	95	10	11.5		
16	Jalapeno	95	15	17.25		
17	Red Paprika	90	15	17.25		
18	Tomato	88	5	5.75		
19	Corn	88	5	5.75		
20	Capsicum	93	5	5.75		
21	Mushroom	100	10	11.5		
Would you like to modify the menu Enter 'YES' or 'NO': NO Have a good day. Thank you.						

THANK YOU