

**Sri Adichunchanagiri Shikshana Trust ®**

# **BGS NATIONAL PUBLIC SCHOOL**

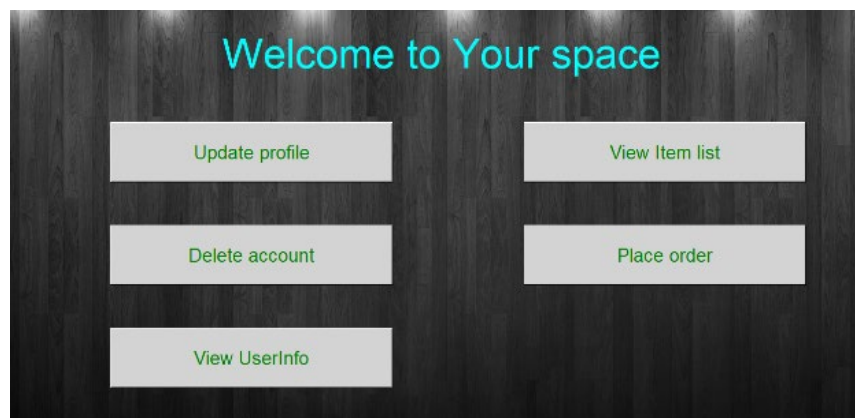
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## **Computer Science Investigatory Project**

Year: 2021 –2022

Topic: Inventory Management system



**NAME:- SUJAY J**

**Class :- 12A**

**ROLL NO:- 37**

**Inventory Management system**

# **CERTIFICATE**

This is to certify that **Sujay Jayakumar** of class XII of BGS National Public School has successfully completed the Investigatory Project in Computer Science for **ALL INDIA SENIOR SECONDARY CERTIFICATE EXAMINATION (AISSCE)** prescribed by CBSE in the year 2021-2022.

Date:

Principal Sign

External Examiner

Internal Examiner

# **ACKNOWLEDGEMENTS**

I would like to express my gratitude to our Respected **Academic Director Dr Sri. S A Nair, Principal Ms. Sreekala G Kumar, and Vice Principal Ms Savitha Suverna** for being a constant pillar of support.

I would then like to thank our **Computer Science teacher, Ms. Babitha E Z** for helping me with this project and guiding us throughout.

I would also like to thank God Almighty and our parents for always being by our side and our fellow mates who were always ready to help.

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## **INTRODUCTION**

This project mainly focuses on the development of an application program on an ecommerce software where customer can shop and order, receive a bill and we can manage customer database and the shop items.

It is a convenient software where the database manages all the customer details in a very organized way and has easy access to the data and can be modified and updated easily.

The gui interface for the billing system provides an interactive way to buy items from the shop and receive a self-generated bill. The user can update, delete and view their account details and order products from the inventory directly through their account portals.

The admin has access to all the customer details as well as the products list in the inventory and can change the same guided by the easy-to-use application program.

# **Project Selection**

I adopted this idea to provide an interactive interface between users to place orders and make bills from our shop. The application program provides a quality experience to the user using data files. Concepts of Python and MySQL were used to develop the application.

The admin creates a database consisting of 1 table: customer. Users can place order of various items using a simple and efficient interface. All this has been achieved through the efficient extraction from and injection into the database and csv file keeping track of the inventory of the products available.

# **WORKING ENVIRONMENT**

## **OPTIMUM REQUIREMENTS**

- **Operating System** – Windows 7,8,10,11
- **Processor** – Must be clocked over 1.5 GHz
- **Graphics Driver** – Intel Integrated Graphics
- **RAM** – 2 GB or more.
- **Hard Disk** – 128 GB
- **Python interpreter** – Python IDLE 3.6
- **MySQL, MS Excel**

# LIBRARIES & MODULES

| <b>Libraries</b>        | <b>Purpose</b>   |
|-------------------------|--|
| <b>tkinter</b>          | To give a GUI interface                                |
| <b>csv</b>              | To access csv files                                    |
| <b>Pillow</b>           | To provide background information and formatting       |
| <b>My SQL connector</b> | To provide a database for easier access of information |
| <b>MessageBox</b>       | To display error and information messages              |
| <b>Tempfile</b>         | This module creates temporary files and directories    |



# Data Dictionary

## USER DEFINED FUNCTIONS

| Functions                                   | PURPOSE                                       |
|---|---|
| <b>MAIN PROJECT CODE</b>                    |   |
| <b>def main():</b>                          | imports main window file                      |
| <b>def f():</b>                             | imports gui_register window                   |
| <b>def admin():</b>                         | imports admin_window                          |
| <b>def login():</b>                         | login screen                                  |
| <b>def login_verify():</b>                  | verify login credentials                      |
| <b>def login_sucess():</b>                  | login success screen                          |
| <b>def password_not_recognised():</b>       | password not recognised                       |
| <b>def user_not_found():</b>                | user not found                                |
| <b>def delete_username_used()</b>           | delete screen                                 |
| <b>def delete_login_success():</b>          | success screen                                |
| <b>def delete_login():</b>                  | delete success screen                         |
| <b>def delete_register():</b>               | delete register screen                        |
| <b>def delete_password_not_recognised()</b> | deletes delete_password_not_recognised screen |
| <b>def delete_user_not_found_screen():</b>  | deletes delete_user_not_found_screen          |

|                                   |   |
|-----------------------------------|---|
| <b>def delete_main():</b>         | delete main account screen  |
| <b>def main_account_screen():</b> | creates the main screen layout  |
| <b>GUI REGISTER WINDOW</b>        |   |
| <b>def submit():</b>              | submits the user credential values into database                              |
| <b>MAIN WINDOW</b>                |   |
| <b>delete()</b>                   | delete confirmation box   |
| <b>delete1()</b>                  | executes account delete command   |
| <b>view()</b>                     | displays customer account details   |
| <b>delete2()</b>                  | destroys view window  |
| <b>update()</b>                   | update customer window  |
| <b>submit()</b>                   | saves the updated changes   |
| <b>delete4()</b>                  | destroys the update window  |
| <b>login_success_screen()</b>     | update success info box   |
| <b>viewlist()</b>                 | displays item list  |
| <b>place_order()</b>              | calls in the billing file   |
| <b>main_account_screen()</b>      | main window defining  |
| <b>BILLING APP</b>                |   |
| <b>product()</b>                  | creates list of all products  |
| <b>change()</b>                   | checks quantity and updates the inventory by subtracting bought item quantity |
| <b>total()</b>                    | prints the total calculated cost and items                                    |

|                               |   |
|-------------------------------|---|
| <b>receipt()</b>              | prints receipt of the order                       |
| <b>print1()</b>               | creates bill in text file                         |
| <b>exit()</b>                 | quit the billing application                      |
| <b>ADMIN WINDOW</b>           |   |
| <b>update()</b>               | accepts customer id to open account update window |
| <b>update1()</b>              | open account update window                        |
| <b>submit()</b>               | updates the changes                               |
| <b>delete4()</b>              | close update screen                               |
| <b>login_success_screen()</b> | update success info box                           |
| <b>delete1()</b>              | deletes the account id entered                    |
| <b>delete2()</b>              | close the delete window                           |
| <b>delete()</b>               | open window to delete the account                 |
| <b>users_info()</b>           | accepts customer id to be viewed                  |
| <b>view()</b>                 | displays account details                          |
| <b>delete2()</b>              | destroys the view screen                          |
| <b>item()</b>                 | accepts changes to be made to the inventory       |
| <b>item2()</b>                | registers the changes in the inventory csv file   |
| <b>main_account_screen()</b>  | design for the admin window                       |

# SOURCE CODE

1st screen:

```
from tkinter import *
import tkinter as tk
from PIL import Image, ImageTk
import mysql.connector
my=mysql.connector.connect(host='localhost',user='root',database='project',password='')
cursor=my.cursor()
if my.is_connected():
    print('Database connected')
```

```
def main():
    import main_window
```

```
def f():
    import gui_RegisterWindow
```

```
def admin():
    import admin_window
```

```
def login():
    global canvas3
    global login_screen
    global username_verify
    global password_verify
    global cid_verify
    username_verify = StringVar()
    password_verify = StringVar()
    cid_verify = StringVar()
```

```
global username_login_entry
global password_login_entry
global cid_login_entry
login_screen = Toplevel(main_screen)
login_screen.title("Login")
login_screen.geometry("330x260")
```

```
# Read the Image
image = Image.open("loginpic.jpg")
```

```

# Reszie the image using resize() method
resize_image = image.resize((330, 260))
img = ImageTk.PhotoImage(resize_image)

# Create Canvas
canvas3= tk.Canvas(login_screen, width = 400,height = 400)

canvas3.pack(fill = "both", expand = True)

# Display image
canvas3.create_image( 0, 0, image = img, anchor = "nw")

# Add Text
canvas3.create_text(170,25, text = "Please enter details below to log into ur
acc",font=("david",12),fill='white')
canvas3.create_text(120,58, text="Username * ",font=("david", 12),fill='white')
canvas3.create_text(120,112, text="Password * ",font=("david", 12),fill='white')
canvas3.create_text(120,170, text="Customer ID * ",font=("david", 12),fill='white')
#entry box
username_login_entry = tk.Entry(login_screen,textvariable=username_verify)
canvas3.create_window(140,80, window=username_login_entry)
password_login_entry= tk.Entry(login_screen,textvariable=password_verify, show='*')
canvas3.create_window(140,130, window=password_login_entry)
cid_login_entry= tk.Entry(login_screen,textvariable=cid_verify)
canvas3.create_window(140,190, window=cid_login_entry)
#add buttons
button1=Button(login_screen,text="Login", height="1", width="10",command =
login_verify,font=("david", 10))
# Display Buttons
button1_canvas = canvas3.create_window(96, 210,anchor = "nw",window = button1)
login_screen.mainloop()

def login_verify():
    global username1
    username1 = username_verify.get()
    password1 = password_verify.get()
    cid1 = cid_verify.get()
    sql="SELECT * FROM customer;"
    cursor.execute(sql)
    my.close()
    data=cursor.fetchall()
    #print(data)
    for i in data:

```

```
#print(i)
#print(i[0])
if i[0]==cid1:
    if password1==i[2]:
        login_sucess()
        current_user=open('current_user.txt','w')
        current_user.write(cid1)
        current_user.close()

        break
    else:
        password_not_recognised()
        current_user=open('current_user.txt','w')
        current_user.close()
        break
else:
    continue
else:
    user_not_found()
```

# Designing popup for login success

```
def login_sucess():
    global login_success_screen
    login_success_screen = Toplevel(login_screen)
    login_success_screen.title("Success")
    login_success_screen.geometry("150x100")
    Label(login_success_screen, text="Login Success").pack()
    Button(login_success_screen, text="OK", command=main).pack()
```

# Designing popup for login invalid password

```
def password_not_recognised():
    global password_not_recog_screen
    password_not_recog_screen = Toplevel(login_screen)
    password_not_recog_screen.title("Error")
    password_not_recog_screen.geometry("150x100")
    Label(password_not_recog_screen, text="Invalid Password",fg="red").pack()
    Button(password_not_recog_screen, text="Try Again",
command=delete_password_not_recognised).pack()
```

# Designing popup for user not found

```
def user_not_found():
    global user_not_found_screen
```

```
user_not_found_screen = Toplevel(login_screen)
user_not_found_screen.title("Error")
user_not_found_screen.geometry("150x100")
Label(user_not_found_screen, text="User Not Found",fg="red").pack()
Button(user_not_found_screen, text="Try Again", command=delete_user_not_found_screen).pack()
Label(user_not_found_screen, text="Register yourself now!").pack()

# Deleting popups
def delete_username_used():
    username_used_screen.destroy()

def delete_login_success():
    login_success_screen.destroy()

def delete_login():
    login_screen.destroy()

def delete_register():
    register_screen.destroy()

def delete_password_not_recognised():
    password_not_recog_screen.destroy()

def delete_user_not_found_screen():
    user_not_found_screen.destroy()

def delete_main():
    main_account_screen_screen.destroy()

def main_account_screen():
    global main_screen
    main_screen = Tk()
    main_screen.geometry("2000x1500")
    # Read the Image
    image = Image.open("download.jpg")

    # Reszie the image using resize() method
    resize_image = image.resize((1590, 840))
    img=ImageTk.PhotoImage(resize_image)

    # Create Canvas
    canvas1 = Canvas(main_screen, width = 400,height = 400, relief=SUNKEN, bd=15)

    canvas1.pack(fill = "both", expand = True)
```

```

# Display image
canvas1.create_image( 0, 0, image=img, anchor = "nw")

# Add Text
canvas1.create_text(700,110, text = "Welcome to Shopezee",font=("david", 45, 'bold'),fill='purple')
canvas1.create_text(650,380, text = "New here? Register now!",font=("david", 20))

#add buttons
button1=Button(main_screen,text="Login", height="2", width="20",command = login,font=("david",
25,
'bold'),fg="lawn green",bg='blue',bd=5)
button2=Button(main_screen,text="Register", height="2", width="20",command=f,font=("david", 25
, 'bold'),fg="lawn green",bg='blue',bd=5)
button3=Button(main_screen,text="ADMIN", height="1",
width="10",command=admin,font=("david",
15),fg="white",bg='dark blue',relief=RIDGE,bd=2)
# Display Buttons
button1_canvas = canvas1.create_window( 450, 200, anchor = "nw",window = button1)
button2_canvas = canvas1.create_window( 450,420,anchor = "nw",window = button2)
button3_canvas = canvas1.create_window( 1200, 630,anchor = "nw",window = button3)
main_screen.mainloop()
main_account_screen()
'''#=====
def main_account_screen():
    global main_screen
    main_screen = Tk()
    main_screen.geometry("2000x1500")
    # Read the Image
    image = Image.open("download.png")

    # Reszie the image using resize() method
    resize_image = image.resize((1585, 830))
    img=ImageTk.PhotoImage(resize_image)

    # Create Canvas
    canvas1 = Canvas(main_screen, width = 400,height = 400)

    canvas1.pack(fill = "both", expand = True)

    # Display image
    canvas1.create_image( 0, 0, image=img, anchor = "nw")

    # Add Text
    canvas1.create_text(740,30, text = "Welcome to Your space",font=("david", 35),fill='cyan')
    #canvas1.create_text(750,365, text = "New here? Register now",font=("david", 20))

```



```

#add buttons
button1=Button(main_screen,text="Update   profile",   height="1",   width="15",command   =
"",font=("david",
20),fg="green",bg='light grey')
button2=Button(main_screen,text="Delete               account",               height="1",
width="15",command="",font=("david",
20),fg="green",bg='light grey')
button3=Button(main_screen,text="View   UserInfo",   height="1",   width="15",command   =
"",font=("david",
20),fg="green",bg='light grey')
button4=Button(main_screen,text="View   Item   list",   height="1",   width="15",command   =
"",font=("david"
, 20),fg="green",bg='light grey')
button5=Button(main_screen,text="Place   order",   height="1",   width="15",command   =
"",font=("david",
20),fg="green",bg='light grey')

# Display Buttons
button1_canvas = canvas1.create_window( 300, 100, anchor = "nw",window = button1)
button2_canvas = canvas1.create_window( 300, 200,anchor = "nw",window = button2)
button3_canvas = canvas1.create_window( 300, 300, anchor = "nw",window = button3)
button4_canvas = canvas1.create_window( 300, 400, anchor = "nw",window = button4)
button5_canvas = canvas1.create_window( 300, 450, anchor = "nw",window = button4)
main_screen.mainloop()
main_account_screen()'''
2nd screen:
from tkinter import *
import tkinter as tk
from PIL import Image,ImageTk
import csv
import mysql.connector
my=mysql.connector.connect(host='localhost',user='root',database='project',password='')
cursor=my.cursor()
if my.is_connected():
    print('Database connected')

def update():
    global root2
    global box1
    global customer
    root2=Tk()
    root2.title('update')
    root2.geometry('400x400')
    box1=Entry(root2, width=30)
    box1.grid(row=0,column=1,padx=20)

```

```
customer=Label(root2, text='CID to be updated:')
customer.grid(row=0,column=0)
'''cursor.execute("select * from customer where customer_id='"+ box1.get() +"'")

while True:
    data=cursor.fetchone()
    if data==None:
        break
    else:
        print(data)
        r=list(data)
print(r)'''

update_btn=Button(root2,text='update record from database',command=update1)
update_btn.grid(row=20,column=0,columnspan=2,pady=10,ipadx=100)
def update1():
    global root3
    global r
    root3=Tk()
    root3.title('Review and Update profile')
    root3.geometry('400x400')
    cursor.execute("select * from customer where customer_id='"+ box1.get() +"'")
    while True:
        data=cursor.fetchone()
        if data==None:
            break
        else:
            print(data)
            r=list(data)
    print(r)
    #creating text boxes

    global box_customer_id
    global box_f_name
    global box_l_name
    global box_date_of_birth
    global box_contact_number
    global box_address
    global box_city
    global box_state
    global box_zipcode
    global box_gender
    global box_username
    global box_password
```

```
box_customer_id=Entry(root3, width=30)
box_customer_id.grid(row=0,column=1,padx=20)
box_customer_id.insert('end', r[0])
```

```
box_f_name=Entry(root3, width=30)
box_f_name.grid(row=1,column=1)
box_f_name.insert('end', r[3])
```

```
box_l_name=Entry(root3, width=30)
box_l_name.grid(row=2,column=1)
box_l_name.insert('end', r[4])
```

```
box_date_of_birth=Entry(root3, width=30)
box_date_of_birth.grid(row=3,column=1)
box_date_of_birth.insert('end', r[5])
```

```
box_contact_number=Entry(root3, width=30)
box_contact_number.grid(row=4,column=1)
box_contact_number.insert('end', r[6])
```

```
box_address=Entry(root3, width=30)
box_address.grid(row=5,column=1)
box_address.insert('end', r[7])
```

```
box_city=Entry(root3, width=30)
box_city.grid(row=6,column=1)
box_city.insert('end', r[8])
```

```
box_state=Entry(root3, width=30)
box_state.grid(row=7,column=1)
box_state.insert('end', r[9])
```

```
box_zipcode=Entry(root3, width=30)
box_zipcode.grid(row=8,column=1)
box_zipcode.insert('end', r[10])
```

```
box_gender=Entry(root3,width=30)
box_gender.grid(row=9,column=1)
box_gender.insert('end', r[11])
```

```
box_username=Entry(root3,width=30)
```

```
box_username.grid(row=11,column=1)
box_username.insert('end', r[1])

box_password=Entry(root3,width=30)
box_password.grid(row=12,column=1)
box_password.insert('end', r[2])

#creating text box labels
customer_id_label=Label(root3, text='CID')
customer_id_label.grid(row=0,column=0)

f_name_label=Label(root3, text='First name')
f_name_label.grid(row=1,column=0)

l_name_label=Label(root3, text='last name')
l_name_label.grid(row=2,column=0)

date_of_birth_label=Label(root3, text='date of birth')
date_of_birth_label.grid(row=3,column=0)

contact_number_label=Label(root3, text='contact number')
contact_number_label.grid(row=4,column=0)

address_label=Label(root3, text='address')
address_label.grid(row=5,column=0)

city_label=Label(root3, text='city')
city_label.grid(row=6,column=0)

state_label=Label(root3, text='state')
state_label.grid(row=7,column=0)

zipcode_label=Label(root3, text='zipcode')
zipcode_label.grid(row=8,column=0)

gender_label=Label(root3, text='Gender')
gender_label.grid(row=9,column=0)

username_label=Label(root3, text='Username')
username_label.grid(row=11,column=0)

password_label=Label(root3, text='Password')
password_label.grid(row=12,column=0)
```

```
submit_btn=Button(root3,text='Update record in database',command=submit)
submit_btn.grid(row=20,column=0,columnspan=2,pady=10,ipadx=100)
```

```
def submit():
    cursor.execute("delete from customer where customer_id='"+ box1.get() +"'")
    my.commit()
    customer_id=box_customer_id.get()
    f_name=box_f_name.get()
    l_name=box_l_name.get()
    date_of_birth=box_date_of_birth.get()
    contact_number=box_contact_number.get()
    address=box_address.get()
    city=box_city.get()
    state=box_state.get()
    zipcode=box_zipcode.get()
    gender=box_gender.get()
    username=box_username.get()
    password=box_password.get()

    #insert into table
    if(customer_id==" or f_name==" or username==" or password==" ):
        MessageBox.showinfo('Insert Status','All Fields are required')
    else:
        cursor.execute("insert into custome
r
values('{}','{}','{}','{}','{}','{}','{}','{}','{}','{}','{}','{}','{}').format(customer_id,username,password,f
_name,l_na
me,date_of_birth,contact_number,address,city,state,zipcode,gender))
        my.commit()
        #clear text boxes already
        box_customer_id.delete(0,END)
        box_f_name.delete(0,END)
        box_l_name.delete(0,END)
        box_date_of_birth.delete(0,END)
        box_contact_number.delete(0,END)
        box_address.delete(0,END)
        box_city.delete(0,END)
        box_state.delete(0,END)
        box_zipcode.delete(0,END)
        box_gender.delete(0,END)
        box_username.delete(0,END)
        box_password.delete(0,END)
        login_success_screen()
```

```
'''except:
    global error_screen
    error_screen = Toplevel(main_screen)
    error_screen.title("Update Unsuccesful")
    error_screen.geometry("150x100")
    Label(error_screen, text="Update failed, Try again").pack()
    Button(error_screen, text="OK", command=delete3).pack()

def delete3():
    error_screen.destroy()'''
def delete4():
    login_success_screen.destroy()
    root3.destroy()
    root2.destroy()

def login_success_screen():
    global login_success_screen
    login_success_screen = Toplevel(main_screen)
    login_success_screen.title("Update status")
    login_success_screen.geometry("250x100")
    Label(login_success_screen, text="Update Success").pack()
    Button(login_success_screen, text="OK", command=delete4).pack()

def delete1():
    global root
    r=[]
    lang=box_customer_id.get()
    sql="select customer_id from customer;"
    cursor.execute(sql)
    while True:
        data=cursor.fetchone()
        if data==None:
            break
        else:
            print(data[0])
            r.append(data[0])
    if lang in r:
        cursor.execute("delete from customer where customer_id='"+ lang +"'")
        my.commit()
        customer_id_label=Label(root1, text='CID deleted sucessfully')
        customer_id_label.grid(row=5,column=0)
        box_customer_id.delete(0,END)
    else:
        root=Tk()
        root.title('delete')
```

```

root.geometry('200x200')
customer_id_label=Label(root, text='CID not found')
customer_id_label.grid(row=0,column=0)

delete_btn=Button(root,text='Try again',command=delete2)
delete_btn.grid(row=20,column=0,columnspan=2,pady=10,ipadx=100)
box_customer_id.delete(0,END)

```

```
def delete2():
```

```

    root.destroy()
    box_customer_id.delete(0,END)

```

```

    """cursor.execute("delete from customer where customer_id="+ box_customer_id.get() +""")
    my.commit()
    root=Tk()
    root.title('Delete sucess')
    root.geometry('200x200')
    customer_id_label=Label(root, text='CID deleted sucessfully')
    customer_id_label.grid(row=0,column=0)

```

```

    delete_btn=Button(root,text='OK',command=delete1)
    delete_btn.grid(row=20,column=0,columnspan=2,pady=10,ipadx=100)

```

```
except:
```

```

    root=Tk()
    root.title('delete')
    root.geometry('200x200')
    customer_id_label=Label(root, text='CID not found')
    customer_id_label.grid(row=0,column=0)

```

```

    delete_btn=Button(root,text='Try again',command=delete1)
    delete_btn.grid(row=20,column=0,columnspan=2,pady=10,ipadx=100)"""

```

```
def delete():
```

```

    global root1
    global box_customer_id
    root1=Tk()
    root1.title('delete')
    root1.geometry('400x400')
    box_customer_id=Entry(root1, width=30)
    box_customer_id.grid(row=0,column=1,padx=20)

```

```

    customer_id_label=Label(root1, text='CID to be deleted:')
    customer_id_label.grid(row=0,column=0)

```

```
delete_btn=Button(root1,text='delete record from database',command=delete1)
delete_btn.grid(row=20,column=0,columnspan=2,pady=10,ipadx=100)

my=mysql.connector.connect(host='localhost',user='root',database='project',password='')
cursor=my.cursor()
if my.is_connected():
    print('Database connected')
cursor.execute("delete from customer where customer_id='"+ box_customer_id.get() +"'")
my.commit()
my.close()

'''if(e_customer_id.get()==""):
    MessageBox.showinfo('Delete Status','CID is compulsory for deleting record')
else:
    my=mysql.connector.connect(host='localhost',user='root',database='project',password='')
    cursor=my.cursor()
    if my.is_connected():
        print('Database connected')
    cursor.execute("delete from customer where customer_id='"+ e_customer_id.get() +"'")
    cursor.execute('commit');

    e_customer_id.delete(0,'end')
    e_f_name.delete(0,'end')
    e_username.delete(0,'end')
    MessageBox.showinfo('Delete Status','Deleted succesfully')'''

def users_info():
    global root4
    global box2
    global customer1

    root4=Tk()
    root4.title('Display userinfo')
    root4.geometry('400x200')

    box2=Entry(root4, width=30)
    box2.grid(row=0,column=1,padx=20)
    customer1=Label(root4, text='CID to be displayed:')
    customer1.grid(row=0,column=0)

    update_btn=Button(root4,text='Enter',command=view)
    update_btn.grid(row=20,column=0,columnspan=2,pady=10,ipadx=100)
```



```
def view():
    global root5
    root5=Tk()
    root5.title('View customer Info')
    root5.geometry('400x400')

    cursor.execute("select * from customer where customer_id='"+ box2.get() +"'")
    while True:
        data=cursor.fetchone()
        if data==None:
            break
        else:
            print(data)
            r=list(data)

    customer_id1_label=Label(root5, text=r[0])
    customer_id1_label.grid(row=0,column=1)

    f_name1_label=Label(root5, text=r[3])
    f_name1_label.grid(row=1,column=1)

    l_name1_label=Label(root5, text=r[4])
    l_name1_label.grid(row=2,column=1)

    date_of_birth1_label=Label(root5, text=r[5])
    date_of_birth1_label.grid(row=3,column=1)

    contact_number1_label=Label(root5, text=r[6])
    contact_number1_label.grid(row=4,column=1)

    address1_label=Label(root5, text=r[7])
    address1_label.grid(row=5,column=1)

    city1_label=Label(root5, text=r[8])
    city1_label.grid(row=6,column=1)

    state1_label=Label(root5, text=r[9])
    state1_label.grid(row=7,column=1)

    zipcode1_label=Label(root5, text=r[10])
    zipcode1_label.grid(row=8,column=1)
```

```
gender1_label=Label(root5, text=r[11])
gender1_label.grid(row=9,column=1)
```

```
username1_label=Label(root5, text=r[1])
username1_label.grid(row=11,column=1)
```

```
password1_label=Label(root5, text=r[2])
password1_label.grid(row=12,column=1)
```

```
customer_id_label=Label(root5, text='CID')
customer_id_label.grid(row=0,column=0)
```

```
f_name_label=Label(root5, text='First name')
f_name_label.grid(row=1,column=0)
```

```
l_name_label=Label(root5, text='last name')
l_name_label.grid(row=2,column=0)
```

```
date_of_birth_label=Label(root5, text='date of birth')
date_of_birth_label.grid(row=3,column=0)
```

```
contact_number_label=Label(root5, text='contact number')
contact_number_label.grid(row=4,column=0)
```

```
address_label=Label(root5, text='address')
address_label.grid(row=5,column=0)
```

```
city_label=Label(root5, text='city')
city_label.grid(row=6,column=0)
```

```
state_label=Label(root5, text='state')
state_label.grid(row=7,column=0)
```

```
zipcode_label=Label(root5, text='zipcode')
zipcode_label.grid(row=8,column=0)
```

```
gender_label=Label(root5, text='Gender')
gender_label.grid(row=9,column=0)
```

```
username_label=Label(root5, text='Username')
username_label.grid(row=11,column=0)
```

```
password_label=Label(root5, text='Password')
```

```
password_label.grid(row=12,column=0)

close_btn=Button(root5,text='Close',command=delete2)
close_btn.grid(row=20,column=0,columnspan=2,pady=10,ipadx=100)

def delete2():
    root5.destroy()
    root4.destroy()

def item():
    global root6
    root6=Tk()
    root6.title('View customer Info')
    root6.geometry('400x400')

    global box_item
    global box_price
    global box_quantity

    box_item=Entry(root6,width=30)
    box_item.grid(row=0,column=1)

    item_label=Label(root6, text='Enter the item name')
    item_label.grid(row=0,column=0)

    box_price=Entry(root6,width=30)
    box_price.grid(row=1,column=1)

    box_quantity=Entry(root6,width=30)
    box_quantity.grid(row=2,column=1)

    price_label=Label(root6, text='Enter the new price')
    price_label.grid(row=1,column=0)

    quantity_label=Label(root6, text='Enter updated quantity')
    quantity_label.grid(row=2,column=0)

    close_btn=Button(root6,text='Update',command=item2)
    close_btn.grid(row=20,column=0,columnspan=2,pady=10,ipadx=100)

def item2():
    f=open('products.csv','r+',newline='')
    csv_r=csv.reader(f)
    csv_w=csv.writer(f)
    p=box_item.get()
```

```
L=[]
found=0
for rec in csv_r:
    if rec[0]==p:
        f.seek(pos)
        rec[1]=box_price.get()
        rec[2]=box_quantity.get()
        csv_w.writerow(rec)
        found=1
    L.append(rec)
if found==1:
    f.seek(0)
    csv_w.writerows(L)
    MessageBox.showinfo('Update Status','Updated succesfully')

else:
    print('Record not found')
    MessageBox.showerror('Update Status','Update failed')
f.close()
```

# Designing Main(first) window

```
def main_account_screen():
    global main_screen
    main_screen = tk.Toplevel()
    main_screen.geometry("2000x1500")
    # Read the Image
    image = Image.open("download.png")

    # Reszie the image using resize() method
    resize_image = image.resize((1585, 830))
    img=ImageTk.PhotoImage(resize_image)

    # Create Canvas
    canvas1 = Canvas(main_screen, width = 400,height = 400)

    canvas1.pack(fill = "both", expand = True)

    # Display image
    canvas1.create_image( 0, 0, image=img, anchor = "nw")

    # Add Text
    canvas1.create_text(740,30, text = "Welcome to Your space",font=("david", 35),fill='cyan')
    #canvas1.create_text(750,365, text = "New here? Register now",font=("david", 20))
```

```

#add button
button1=Button(main_screen,text="Update   profiles",   height="2",   width="25",command   =
update,font=("david",
20),fg="green",bg='light grey')
button2=Button(main_screen,text="Delete               account",               height="2",
width="25",command=delete,font=("david"
, 20),fg="green",bg='light grey')
button3=Button(main_screen,text="View User\'s Info", height="2", width="25",command=
users_info,font=("david", 20),fg="green",bg='light grey')
button4=Button(main_screen,text="Add   Items",   height="2",   width="25",command   =
item,font=("david"
, 20),fg="green",bg='light grey')
#button5=Button(main_screen,text="Place order", height="1", width="15",command=
place_order,font=("david", 20),fg="green",bg='light grey')

# Display Buttons
button1_canvas = canvas1.create_window( 300, 100, anchor = "nw",window = button1)
button2_canvas = canvas1.create_window( 300, 300,anchor = "nw",window = button2)
button3_canvas = canvas1.create_window( 300, 500, anchor = "nw",window = button3)
button4_canvas = canvas1.create_window( 900, 200, anchor = "nw",window = button4)
#button5_canvas = canvas1.create_window( 300, 500, anchor = "nw",window = button5)
main_screen.mainloop()
main_account_screen()
my.close()
3rd screen:
from tkinter import *
from tkinter import messagebox
import tkinter as tk
import tempfile
import os
import csv

def product():
    global l
    global cost1
    l=[]
    cost1=[]
    f=open('products.csv','r',newline='')
    r=csv.reader(f)
    for i in r:
        l.append(i)
        cost1.append(i[1])
    print(l)
    print('cost1=',cost1)
product()

```

```
root=tk.Toplevel()
root.title('Billing Manangement System')
root.geometry('1280x720')
bg_color='#2D9290'

#=====variables=====
Bread=IntVar()
Wine=IntVar()
Rice=IntVar()
Gal=IntVar()
Total=IntVar()

cb=StringVar()
cw=StringVar()
cr=StringVar()
cg=StringVar()
total_cost=StringVar()
# =====Function=====
def change():
    f=open('products.csv','r+',newline='')
    csv_r=csv.reader(f)
    csv_w=csv.writer(f)
    l=[]
    b1=[b,w,r]
    i=0
    global fraud
    fraud=0
    for rec in csv_r:
        if b1[i]>int(rec[2]):
            messagebox.showerror('Error','Sufficient stock unavailable, \nPlease visit the item list ')
            i=i+1
            fraud=1
            root.destroy()
            import bil
            break
        else:
            #for rec in csv_r:
            rec[2]=int(rec[2])-int(b1[i])
            l.append(rec)
            i+=1
    if fraud==0:
        f.seek(0)
        csv_w.writerows(l)
        f.close()
```

```
else:  
    pass
```

```
q1=[]
```

```
def total():  
    global b  
    global w  
    global r
```

```
for i in q:  
    s=int(i.get())  
    q1.append(s)
```

```
if q1==[] or len(q1)==2 or len(q1)==1:  
    messagebox.showerror('Error','Please select number of quantity')
```

```
else:  
    b=q1[0]  
    w=q1[1]  
    r=q1[2]
```

```
change()
```

```
if fraud==0:  
    t=int(b)*int(cost1[0])+int(w)*int(cost1[1])+int(r)*int(cost1[2])  
    print(t)  
    Total.set(b + w + r)  
    total_cost.set('₹ ' + str(round(t, 2)))
```

```
cb.set('₹ '+str(round(int(int(b)*int(cost1[0])),2)))  
cw.set('₹ '+str(round(int(int(w)*int(cost1[1])),2)))  
cr.set('₹ '+str(round(int(int(r)*int(cost1[2])),2)))
```

```
messagebox.showinfo('Success','Your order has been confirmed')
```

```
else:  
    textarea.delete(1.0,END)  
    Bread.set(0)  
    Wine.set(0)  
    Rice.set(0)  
    Total.set(0)
```

```
        cb.set("")
        cw.set("")
        cr.set("")
        total_cost.set("")

def receipt():
    textarea.delete(1.0,END)
    textarea.insert(END,' Items\tNumber of Items\t Cost of Items\n')
    textarea.insert(END,f'\nPhone\t\t{b}\t {cb.get()}')
    textarea.insert(END,f'\n\nlaptop\t\t{w}\t {cw.get()}')
    textarea.insert(END,f'\n\nHDD\t\t{r}\t {cr.get()}')
    textarea.insert(END, f"\n\n=====")
    textarea.insert(END,f'\nTotal Price\t\t{Total.get()}\t{total_cost.get()}')
    textarea.insert(END, f"\n\n=====")

def print1():
    with open('Bill.txt', "w", encoding="utf-8") as f:
        q=textarea.get('1.0','end-1c')
        print(q)
        f.write(str(q))

    messagebox.showinfo('Success','Your receipt is saved')
    #filename=tempfile.mktemp('.txt')
    #open(filename,'w').write(q)
    #os.startfile(filename,'Print')

'''def reset():
    textarea.delete(1.0,END)
    for i in range (len(l)):
        textvar[i].set(0)

    Total.set(0)

    cb.set("")
    cw.set("")
    cr.set("")
    cg.set("")
    total_cost.set('')'''

def exit():
    if messagebox.askyesno('Exit','Do you really want to exit'):
        root.destroy()
```



```

title=Label(root,pady=5,text="Billing
System",bd=12,bg=bg_color,fg='white',font=('times new
roman', 35 ,'bold'),relief=GROOVE,justify=CENTER)
title.pack(fill=X)

#=====Product Details=====
F1 = LabelFrame(root, text='Product Details', font=('times new romon', 18, 'bold'),
fg='gold',bg=bg_color,bd=15,relief=RIDGE)
F1.place(x=5, y=90,width=800,height=500)

#=====Heading=====
itm=Label(F1, text='Items', font=('Helvetica',25, 'bold','underline'), fg='black',bg=bg_color)
itm.grid(row=0,column=0,padx=20,pady=15)

n=Label(F1, text='Number of Items', font=('Helvetica',25, 'bold','underline'), fg='black',bg=bg_color)
n.grid(row=0,column=1,padx=30,pady=15)

cost=Label(F1, text='Cost of Items', font=('Helvetica',25, 'bold','underline'), fg='black',bg=bg_color)
cost.grid(row=0,column=2,padx=30,pady=15)

#=====Product=====
p=1
q=[]
textvar=[cb,cw,cr]
jj=0
for j in range (len(l)):

    bread=Label(F1, text=l[j][0], font=('times new rommon',20, 'bold'), fg='lawngreen',bg=bg_color)
    bread.grid(row=p,column=0,padx=20,pady=15)

    b_txt=Entry(F1,font='arial 15 bold',relief=SUNKEN,bd=7,textvariable="",justify=CENTER)
    b_txt.grid(row=p,column=1,padx=20,pady=15)
    q.append(b_txt)
    cb_txt=Entry(F1,font='arial 15 bold',relief=SUNKEN,bd=7,textvariable=textvar[jj],justify=CENTER)
    cb_txt.grid(row=p,column=2,padx=20,pady=15)
    p+=1
    jj=jj+1

t=Label(F1, text='Total', font=('times new rommon',20, 'bold'), fg='lawngreen',bg=bg_color)
t.grid(row=5,column=0,padx=20,pady=15)
t_txt=Entry(F1,font='arial 15 bold',relief=SUNKEN,bd=7,textvariable=Total,justify=CENTER)
t_txt.grid(row=5,column=1,padx=20,pady=15)
totalcost_txt=Entry(F1,font='arial
bold',relief=SUNKEN,bd=7,textvariable=total_cost,justify=CENTER)

```

```

totalcost_txt.grid(row=5,column=2,padx=20,pady=15)

#=====Bill area=====
F2=Frame(root,relief=GROOVE,bd=10)
F2.place(x=820,y=90,width=430,height=500)
bill_title=Label(F2,text='Receipt',font='arial 15 bold',bd=7,relief=GROOVE).pack(fill=X)
scrol_y=Scrollbar(F2,orient=VERTICAL)
scrol_y.pack(side=RIGHT,fill=Y)
textarea=Text(F2,font='arial 15',yscrollcommand=scrol_y.set)
textarea.pack(fill=BOTH)
scrol_y.config(command=textarea.yview)

#=====Buttons=====
F3 =Frame(root,bg=bg_color,bd=15,relief=RIDGE)
F3.place(x=5, y=590,width=1270,height=120)

btn1 = Button(F3, text='Total', font='arial 25 bold', padx=5, pady=5,
bg='yellow',fg='red',width=10,command=total)
btn1.grid(row=0,column=0,padx=20,pady=10)

btn2 = Button(F3, text='Receipt', font='arial 25 bold', padx=5, pady=5,
bg='yellow',fg='red',width=10,command=receipt)
btn2.grid(row=0,column=1,padx=10,pady=10)

btn3 = Button(F3, text='Save receipt', font='arial 25 bold', padx=5, pady=5,
bg='yellow',fg='red',width=10,command=print1)
btn3.grid(row=0,column=2,padx=10,pady=10)

'''btn4 = Button(F3, text='Reset', font='arial 25 bold', padx=5, pady=5,
bg='yellow',fg='red',width=10,command=reset)
btn4.grid(row=0,column=3,padx=10,pady=10)'''

btn5 = Button(F3, text='Exit', font='arial 25 bold', padx=5, pady=5,
bg='yellow',fg='red',width=10,command=exit)
btn5.grid(row=0,column=4,padx=10,pady=10)
root.mainloop()
4th screen
import mysql.connector

mycon=mysql.connector.connect(host='localhost',
                             user='root',
                             database='project',
                             password='')

```

```
if mycon.is_connected():  
    print('Database connected')
```

```
cursor=mycon.cursor()
```

```
#creating customer table  
sql="""CREATE TABLE customer  
    (customer_id char(4) PRIMARY KEY,  
     username varchar(50),  
     password varchar(30),  
     first_name varchar(100),  
     last_name varCHAR(100),  
     date_of_birth DATE,  
     contact_number varchar(10),  
     address varCHAR(200),  
     city varCHAR(100),  
     state varCHAR(100),  
     zipcode INT(6),  
     gender varchar(6));""  
cursor.execute(sql)  
mycon.commit()  
mycon.close()
```

5th screen

```
import csv  
products=open('products.csv','w',newline='')  
l=[]  
l2=['laptop',900,28]  
l1=['Phone',200,25]  
l3=['HDD',200,24]  
l.append(l1)  
l.append(l2)  
l.append(l3)  
w=csv.writer(products)  
w.writerows(l)  
products.close()
```

6th screen:

```
import mysql.connector  
from tkinter import *  
import tkinter.messagebox as MessageBox
```

```
import tkinter as tk
mycon=mysql.connector.connect(host='localhost',
                               user='root',
                               database='project',
                               password='')
if mycon.is_connected():
    print('Database connected')
cursor=mycon.cursor()

root=Tk()
root.title('Register')
root.geometry('500x400')

#cursor=mycon.cursor()
```

```
#creating customer table
#sql="CREATE TABLE customer
#   (customer_id char(4) PRIMARY KEY,
#   username varchar(50),
#   password varchar(30),
#   first_name varchar(100),
#   last_name varCHAR(100),
#   date_of_birth DATE,
#   contact_number varchar(10),
#   address varCHAR(200),
#   city varCHAR(100),
#   state varCHAR(100),
#   zipcode INT(6),
#   gender varchar(6));"
#cursor.execute(sql)
#mycon.commit()
#mycon.close()
```

```
#creating text boxes
box_customer_id=Entry(root, width=30)
box_customer_id.grid(row=0,column=1,padx=20)

box_f_name=Entry(root, width=30)
box_f_name.grid(row=1,column=1)
```

```
box_l_name=Entry(root, width=30)
box_l_name.grid(row=2,column=1)
```

```
box_date_of_birth=Entry(root, width=30)
box_date_of_birth.grid(row=3,column=1)
```

```
box_contact_number=Entry(root, width=30)
box_contact_number.grid(row=4,column=1)
```

```
box_address=Entry(root, width=30)
box_address.grid(row=5,column=1)
```

```
box_city=Entry(root, width=30)
box_city.grid(row=6,column=1)
```

```
box_state=Entry(root, width=30)
box_state.grid(row=7,column=1)
```

```
box_zipcode=Entry(root, width=30)
box_zipcode.grid(row=8,column=1)
```

```
box_gender=Entry(root,width=30)
box_gender.grid(row=9,column=1)
```

```
box_username=Entry(root,width=30)
box_username.grid(row=11,column=1)
```

```
box_password=Entry(root,width=30)
box_password.grid(row=12,column=1)
```

```
#creating text box labels
customer_id_label=Label(root, text='CID (contact dealer for ur unique code)')
customer_id_label.grid(row=0,column=0)
```

```
f_name_label=Label(root, text='First name')
f_name_label.grid(row=1,column=0)
```

```
l_name_label=Label(root, text='last name')
l_name_label.grid(row=2,column=0)
```

```
date_of_birth_label=Label(root, text='date of birth(yyyy-mm-dd)')
date_of_birth_label.grid(row=3,column=0)
```

```
contact_number_label=Label(root, text='contact number (10 digit integer)')
```

```
contact_number_label.grid(row=4,column=0)

address_label=Label(root, text='address')
address_label.grid(row=5,column=0)

city_label=Label(root, text='city')
city_label.grid(row=6,column=0)

state_label=Label(root, text='state')
state_label.grid(row=7,column=0)

zipcode_label=Label(root, text='zipcode (6 digit integer)')
zipcode_label.grid(row=8,column=0)

gender_label=Label(root, text='Gender(M/F)')
gender_label.grid(row=9,column=0)


username_label=Label(root, text='Username')
username_label.grid(row=11,column=0)

password_label=Label(root, text='Password')
password_label.grid(row=12,column=0)


#creating submit funtion
def submit():
    customer_id=box_customer_id.get()
    f_name=box_f_name.get()
    l_name=box_f_name.get()
    date_of_birth=box_date_of_birth.get()
    contact_number=box_contact_number.get()
    address=box_address.get()
    city=box_city.get()
    state=box_state.get()
    zipcode=box_zipcode.get()
    gender=box_gender.get()
    username=box_username.get()
    password=box_password.get()
```

# **Log of project**

## **LOG-1:15/6/2021**

- Ideation
- Discussion of topic - Inventory

## **LOG-2:27/6/2021**

- Searched for various modules available to store and retrieve customer data

## **LOG-3:10/7/2021**

- Learning to work with Tkinter

## **LOG-4:23/7/2021**

- Created SQL table Customer

## **LOG-5:24/7/2021**

- Worked on sign up and login options using Python-SQL Connectivity

## **LOG-6:26/7/2021**

- Worked on user options: Creating a User Defined account commands

## **LOG-7:30/7/2021**

- Worked on admin options: Updating user profile details in SQL table Customer

## **LOG-8:3/8/2021**

- Worked on sign up and login options using Python-SQL Connectivity
- Worked on user options: update,delete,place order button added in user home screen

## **LOG-9:4/8/2021**

- Worked on user options: viewing product list

## **LOG-10:5/8/2021**

- Worked on admin options: Updating user details to SQL table Customer
- Worked on admin options: Deleting user details from SQL table Customer
- Worked on admin options: Updating product details in CSV table Products

#### **LOG-11:6/8/2021**

- Worked on user options: Playing Songs from a defined Playlist

#### **LOG-12:7/8/2021**

- Worked on admin options: Integrating admin options(Add, Update and Delete)

#### **LOG-13:14/8/2021**

- Worked on user options: Integrating user options

#### **LOG-14:1/9/2021**

- Worked on user options: Search for a Song

#### **LOG-15:8/9/2021**

- Worked on user options: Delete a User Defined Playlist from SQL table Playlist

#### **LOG-16:12/9/2021**

- Discussion to include lyrics feature using text files

#### **LOG-17:6/10/2021**

- Creating Text files

#### **LOG-17:10/10/2021**

- Linking text files

#### **LOG-17:14/10/2021**

- Linking CSV files



**LOG-17:17/10/2021**

- Creating Database

**LOG-17:21/10/2021**

- Organizing files

**LOG-17:2/11/2021**

- Addition of background

**LOG-17:6/11/2021**

- Worked on user options: Introduction of lyric feature in song screen

**LOG-18:9/11/2021**

- Worked on integrating all the program files together

**LOG-19:12/11/2021**

- Worked on various bug fixes and improvements

**LOG-20:15/11/2021**

- Improvements in the design of GUI interface and layout
- Worked with color combinations and backgrounds

**LOG-17:20/11/2021**

- Font color and checking for errors

**LOG-17:28/11/2021**

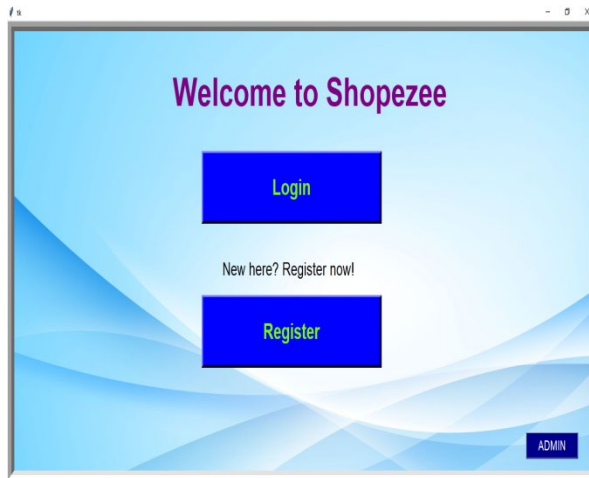
- Fixing Bugs

**LOG-21:15/12/2021**

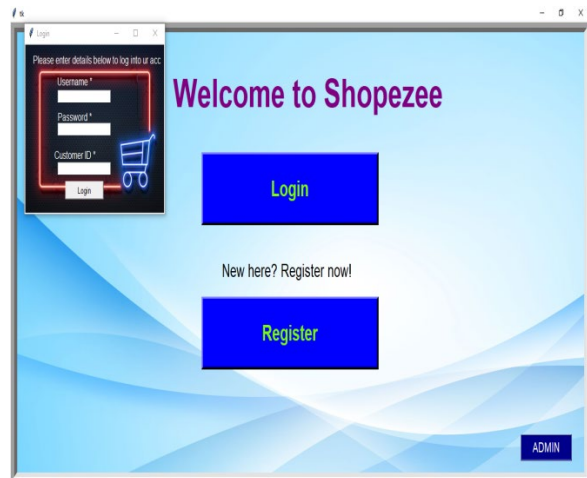
- Completion of Project and Submission

# SAMPLE OUTPUT

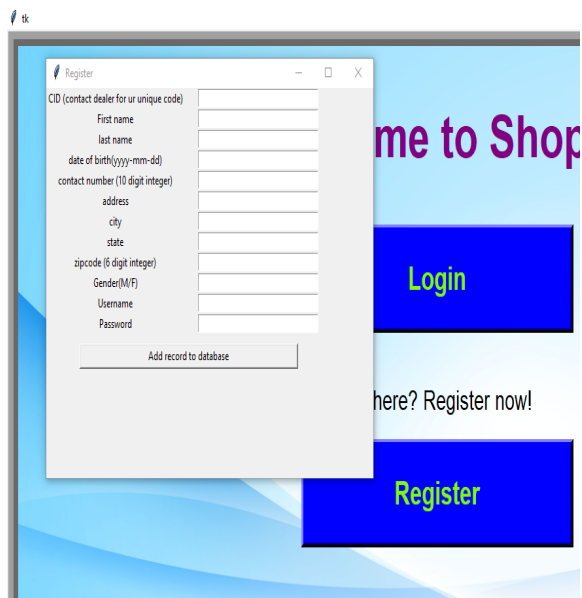
WELCOME SCREEN



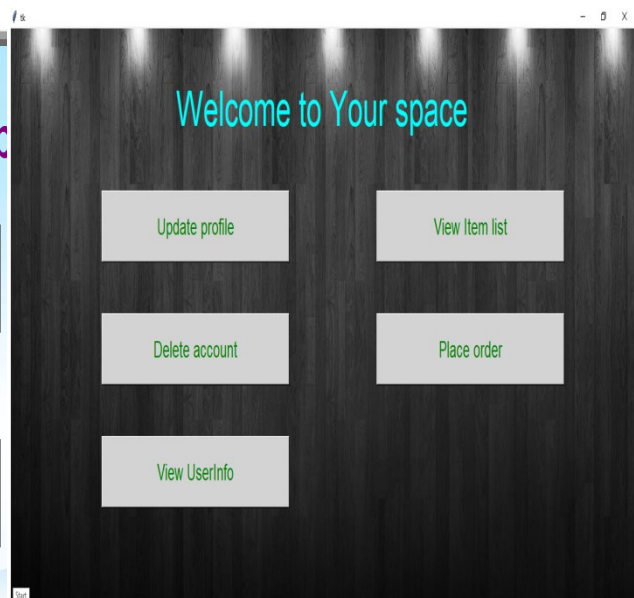
LOGIN OPTION



REGISTER WINDOW



MAIN ACCOUNT WINDOW



## REVIEW AND UPDATE FUNCTIONALITY

tk

Review and Update profile

|                |                |
|----------------|----------------|
| CID            | A001           |
| First name     | sujay          |
| last name      | j              |
| date of birth  | 2004-08-06     |
| contact number | 1234567890     |
| address        | royal shelters |
| city           | bangalore      |
| state          | karnataka      |
| zipcode        | 560076         |
| Gender         | M              |
| Username       | sujay          |
| Password       | sujay          |

Update record in database

View Userinfo

## DELETE ACCOUNT

tk

delete

Are you sure you want to delete your account?

Yes

Welcome to You

update profile

Delete account

## VIEW ACCOUNT CREDENTIALS

tk

View your Info

|                |                |
|----------------|----------------|
| CID            | A001           |
| First name     | sujay          |
| last name      | j              |
| date of birth  | 2004-08-06     |
| contact number | 1234567890     |
| address        | royal shelters |
| city           | bangalore      |
| state          | karnataka      |
| zipcode        | 560076         |
| Gender         | M              |
| Username       | sujay          |
| Password       | sujay          |

Close

View Userinfo

profile

count

## VIEWING THE INVENTORY AND PRODUCTS LIST

tk

ITEMS

The products are:

| Item name | Price | Quantity |
|-----------|-------|----------|
| Phone     | 200   | 17       |
| laptop    | 900   | 20       |
| HDD       | 200   | 16       |

## BILLING APPLICATION

## TOTAL AND RECEIPT FUNCTIONALITY

Billing Management System

Product Details

| Items  | Number of Items      | Cost of Items        |
|--------|----------------------|----------------------|
| Phone  | <input type="text"/> | <input type="text"/> |
| laptop | <input type="text"/> | <input type="text"/> |
| HDD    | <input type="text"/> | <input type="text"/> |
| Total  | 0                    | <input type="text"/> |

Receipt

Total

Receipt

Save receipt

Exit

Billing Management System

Product Details

| Items  | Number of Items | Cost of Items |
|--------|-----------------|---------------|
| Phone  | 3               | ₹ 600         |
| laptop | 4               | ₹ 3600        |
| HDD    | 5               | ₹ 1000        |
| Total  | 12              | ₹ 5200        |

Receipt

| Items       | Number of Items | Cost of Items |
|-------------|-----------------|---------------|
| Phone       | 3               | ₹ 600         |
| laptop      | 4               | ₹ 3600        |
| HDD         | 5               | ₹ 1000        |
| =====       |                 |               |
| Total Price | 12              | ₹ 5200        |
| =====       |                 |               |

Total

Receipt

Save receipt

Exit

## SAVING BILL AS NOTEPAD

₹ 600

Success

Your order has been confirmed

OK

₹ 5200

Bill - Notepad

File Edit Format View Help

| Items       | Number of Items | Cost of Items |
|-------------|-----------------|---------------|
| Phone       | 3               | ₹ 600         |
| laptop      | 4               | ₹ 3600        |
| HDD         | 5               | ₹ 1000        |
| =====       |                 |               |
| Total Price | 12              | ₹ 5200        |
| =====       |                 |               |

Ln 1, Col 1 100% Windows (CRLF) UTF-8

## ADMIN WINDOW

Welcome to ADMIN space

Update profiles

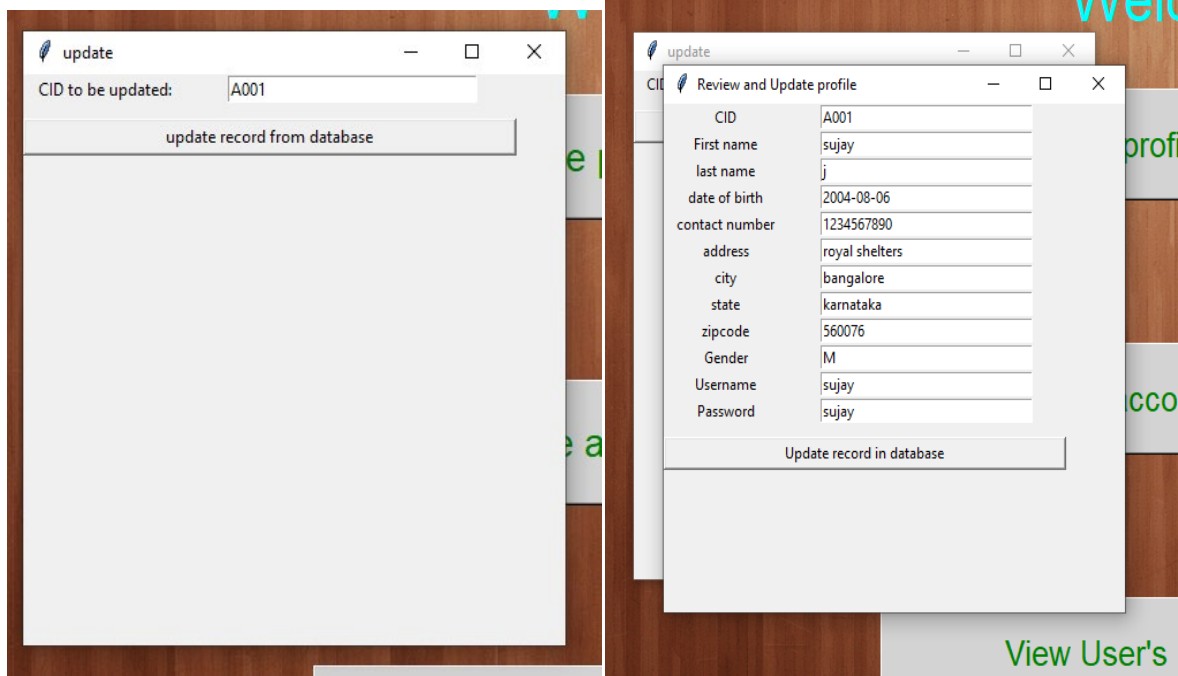
Add Items

Delete account

View User's Info

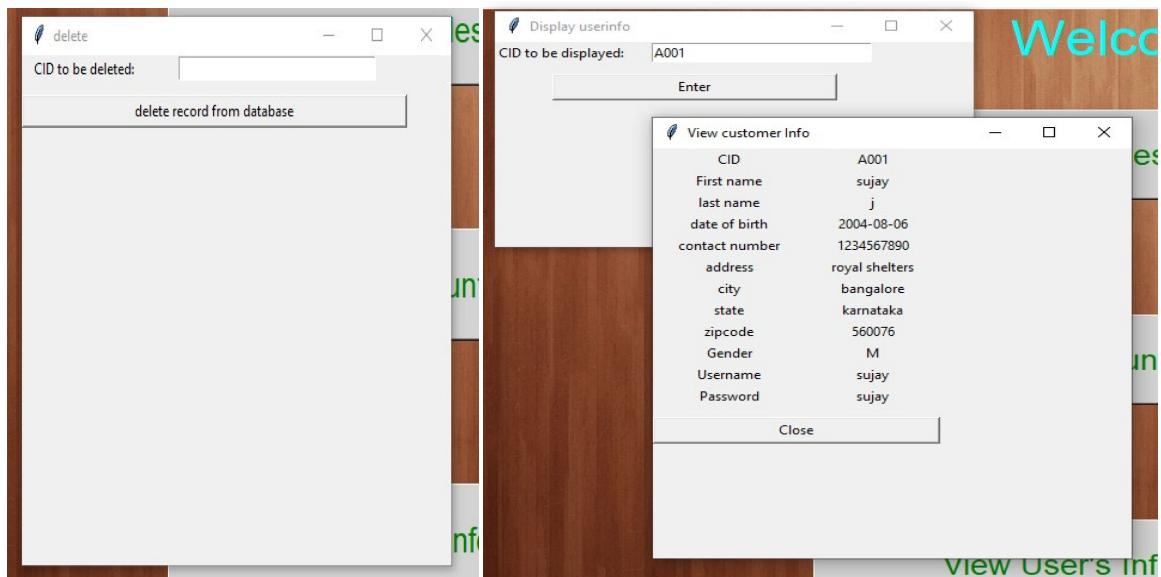
## UPDATE CUSTOMER ACCOUNT WITH ID

## UPDATE WINDOW

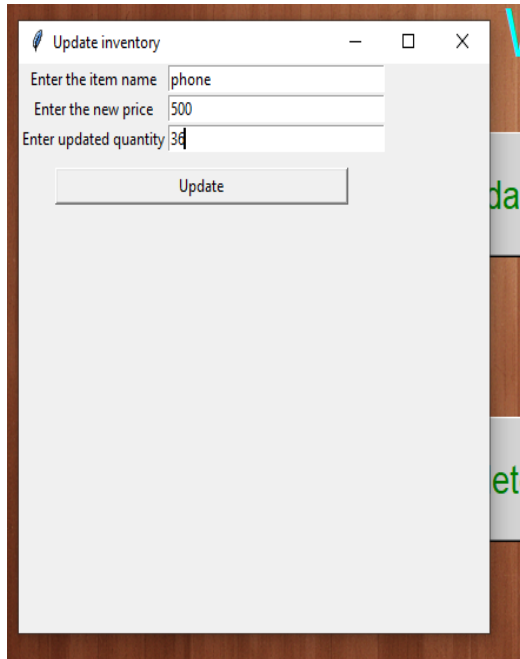


## DELETING ID INPUT

## VIEW CUSTOMER DETAILS



## UPDATE INVENTORY WINDOW



The screenshot shows a window titled "Update inventory" with a standard Windows-style title bar (minimize, maximize, close buttons). Inside the window, there are three text input fields stacked vertically. The first field is labeled "Enter the item name" and contains the text "phone". The second field is labeled "Enter the new price" and contains the text "500". The third field is labeled "Enter updated quantity" and contains the text "36". Below these fields is a single button labeled "Update". The window is set against a background that appears to be a wooden surface with some green text visible on the right edge.

# **BIBLIOGRAPHY**

- <https://www.tutorialspoint.com/python/>
- <https://www.geeksforgeeks.org>
- <http://stackoverflow.com/>
- <https://www.javatpoint.com>
- <https://www.google.co.in/>
- <https://pythonexamples.org>
- <https://effbot.org/>