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3. System Implementation :

3.1 Hardware Used:

4GB RAM

x86 64-bit CPU (Intel / AMD architecture)

1024\*768 Display

Python Connector

3.2 Software Used:

Python 3.9.6

MySQL 5.5

4. System Design & Development :

4.1 Database Desgins:

1)product table :

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Field | Type | Null | Key | Default | Extra |
| pid | int(11) | NO | PRI | NULL | Auto\_increment |
| pname | varchar(20) | YES |  | NULL |  |
| price | int(11) | YES |  | NULL |  |

2)newuser Table :

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Field | Type | Null | Key | Default | Extra |
| cname | varchar(20) | YES |  | NULL |  |
| uname | varchar(20) | YES |  | NULL |  |
| password | varchar(20) | YES |  | NULL |  |
| email | varchar(20) | YES |  | NULL |  |

3)tuser table:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Field | Type | Null | Key | Default | Extra |
| uname | varchar(20) | YES |  | NULL |  |
| pname | Varchar(20) | YES |  | NULL |  |
| qty | int(11) | YES |  | NULL |  |
| price | decimal(10,0) | YES |  | NULL |  |
| totamt | decimal(10,0) | YES |  | NULL |  |

Coding :

**Login** **Page** :

from tkinter import \*

import mysql.connector

from admintask import admin\_task

from UserTask import User\_form

def display\_selected(choice):

ch = options.get()

#print(ch)

def dbadd():

tus=txtus.get();

tnm=txtname.get();

tp=txtpass.get();

te=txtemail.get();

print(te);

conn = mysql.connector.connect(host="localhost",user="root",password="mysqlroot",db="shopping")

cur = conn.cursor()

query = "insert into newuser(cname,uname,password,email)values(%s,%s,%s,%s)"

s1 = (tnm,tus,tp,te)

try:

cur.execute(query,s1)

conn.commit();

except Exception as e:

conn.rollback()

finally:

conn.close()

print("Query executed successfully")

def open\_win():

new= Toplevel(login\_screen)

new.geometry("750x250")

new.title("New Registration")

#chd=Tk();

global txtus;

global txtname;

global txtemail;

global txtpass;

txtus=StringVar()

txtname=StringVar()

txtemail=StringVar()

txtpass=StringVar()

#Create a Label in New window

Label(new, text="Name").place(x=50,y=20)

Entry(new,textvariable=txtname).place(x=130,y=20)

Label(new, text="user Name").place(x=50,y=50)

Entry(new,textvariable=txtus).place(x=130,y=50)

Label(new, text="password").place(x=30,y=80)

Entry(new,textvariable=txtpass).place(x=130,y=80)

Label(new, text="Email").place(x=50,y=110)

Entry(new,textvariable=txtemail).place(x=130,y=110)

Button(new,text="Register", width=10, height=1, bg="orange",command=dbadd).place(x=105,y=200)

#defining login function

def login():

uname=username.get()

print(uname)

pwd=password.get()

#getting form data

ch=options.get()

print(ch)

mysqldb = mysql.connector.connect(host="localhost",user="root",password="mysqlroot",database="shopping")

mycursor = mysqldb.cursor()

myrecords=[]

mycursor.execute("SELECT uname,password FROM newuser")

records = mycursor.fetchall()

for x in records:

for row in x:

myrecords.append(row)

print(records)

if uname and pwd in myrecords:

print("Hello")

if ch=="Select":

message.set("select admin or user")

#applying empty validation

elif uname=='' or pwd=='':

message.set("fill the empty field!!!")

else:

if uname=="raman" and pwd=="abc123" and ch=="Admin":

#message.set("Admin Login success")

admin\_task()

elif uname and pwd in myrecords and ch=="User":

message.set("User Login success")

User\_form(uname)

else:

message.set("Wrong username or password!!!")

#defining loginform function

def Loginform():

global login\_screen

login\_screen = Tk()

#Setting title of screen

login\_screen.title("Login Form")

#setting height and width of screen

login\_screen.geometry("300x250")

#declaring variable

global message;

global username;

global password;

global options;

username = StringVar()

password = StringVar()

message=StringVar()

#Creating layout of login form

Label(login\_screen,width="300", text="Please enter details below", bg="orange",fg="white").pack()

#Username Label

my\_list = ["Admin","User"];

options = StringVar();

options.set("Select")

dropdown = OptionMenu(login\_screen,options,\*my\_list,command=display\_selected).place(x=60,y=20)

Label(login\_screen, text="Username \* ").place(x=20,y=60)

#Username textbox

Entry(login\_screen, textvariable=username).place(x=90,y=62)

#Password Label

Label(login\_screen, text="Password \* ").place(x=20,y=100)

#Password textbox

Entry(login\_screen, textvariable=password,show="\*").place(x=90,y=102)

#Label for displaying login status[success/failed]

Label(login\_screen, text="",textvariable=message).place(x=95,y=180)

#Login button

#options.set(my\_list[1]);

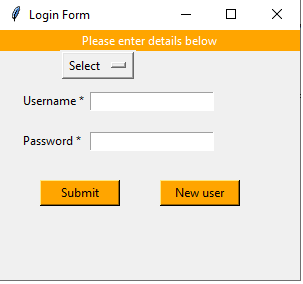
Button(login\_screen, text="Submit", width=10, height=1, bg=orange",command=login).place(x=40,y=150)

Button(login\_screen, text="New user", width=10, height=1, bg="orange",command=open\_win).place(x=160,y=150)

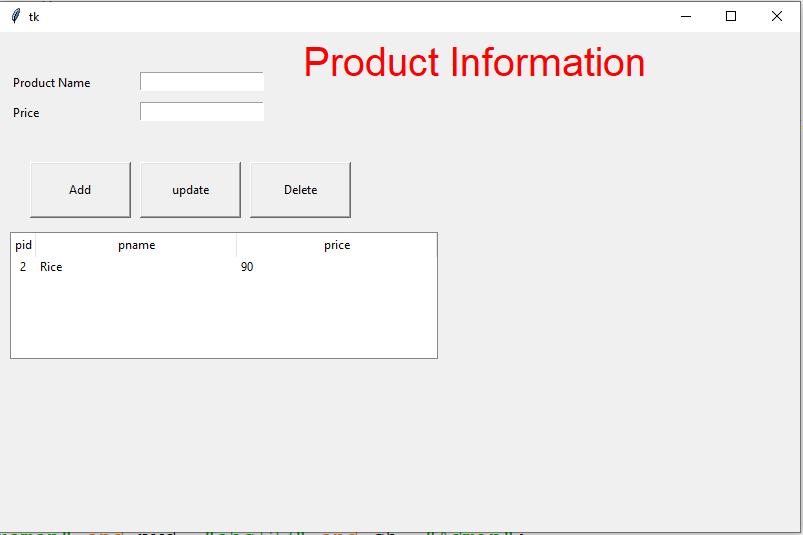
login\_screen.mainloop()

#calling function Loginform

Loginform()



Product Information :



Admin Task Code :

import tkinter as tk

from tkinter import ttk, messagebox

import mysql.connector

from tkinter import \*

def GetValue(event):

e2.delete(0, END)

e3.delete(0, END)

row\_id = listBox.selection()[0]

select = listBox.set(row\_id)

e2.insert(0,select['pname'])

e3.insert(0,select['price'])

def Add():

pn = e2.get()

pr = e3.get()

mysqldb=mysql.connector.connect(host="localhost",user="root",password="mysqlroot",database="shopping")

mycursor=mysqldb.cursor()

try:

sql = "INSERT INTO product (pname,price) VALUES (%s, %s)"

val = (pn,pr)

mycursor.execute(sql, val)

mysqldb.commit()

lastid = mycursor.lastrowid

messagebox.showinfo("information", "product inserted successfully...")

e2.delete(0, END)

e3.delete(0, END)

except Exception as e:

print(e)

mysqldb.rollback()

mysqldb.close()

def update():

pn = e2.get()

pr = e3.get()

mysqldb=mysql.connector.connect(host="localhost",user="root",password="mysqlroot",database="shopping")

mycursor=mysqldb.cursor()

try:

sql = "Update product set price=%s where pname=%s"

val = (pr,pn)

mycursor.execute(sql, val)

mysqldb.commit()

lastid = mycursor.lastrowid

messagebox.showinfo("information", "Record Updated successfully...")

e2.delete(0, END)

e3.delete(0, END)

e2.focus\_set()

except Exception as e:

print(e)

mysqldb.rollback()

mysqldb.close()

def delete():

#studid = e1.get()

selected\_item = listBox.selection()[0]

x=listBox.item(selected\_item)['values'][0]

mysqldb=mysql.connector.connect(host="localhost",user="root",password="mysqlroot",database="shopping")

mycursor=mysqldb.cursor()

try:

sql = "delete from product where pid = %s"

val = (x,)

mycursor.execute(sql, val)

mysqldb.commit()

lastid = mycursor.lastrowid

messagebox.showinfo("information", "Record Deleteeeee successfully...")

e1.delete(0, END)

e2.delete(0, END)

e3.delete(0, END)

e4.delete(0, END)

e1.focus\_set()

except Exception as e:

print(e)

mysqldb.rollback()

mysqldb.close()

def show():

mysqldb = mysql.connector.connect(host="localhost",user="root",password="mysqlroot",database="shopping")

mycursor = mysqldb.cursor()

mycursor.execute("SELECT pid,pname,price FROM product")

records = mycursor.fetchall()

print(records)

for i, (pid,pname, price) in enumerate(records, start=1):

listBox.insert("", "end", values=(pid, pname, price))

mysqldb.close()

def admin\_task():

root = Tk()

root.geometry("800x500")

global e1

global e2

global e3

global e4

global listBox

tk.Label(root, text="Product Information", fg="red", font=(None, 30)).place(x=300, y=5)

Label(root, text="Product Name").place(x=10, y=40)

Label(root, text="Price").place(x=10, y=70)

e2 = Entry(root)

e2.place(x=140, y=40)

e3 = Entry(root)

e3.place(x=140, y=70)

Button(root, text="Add",command = Add,height=3, width= 13).place(x=30, y=130)

Button(root, text="update",command = update,height=3, width= 13).place(x=140, y=130)

Button(root, text="Delete",command = delete,height=3, width= 13).place(x=250, y=130)

cols = ('pid', 'pname', 'price')

listBox = ttk.Treeview(root, columns=cols, show='headings',height=5)

for col in cols:

listBox.heading(col, text=col)

listBox.column("# 1",anchor=CENTER, stretch=NO, width=25)

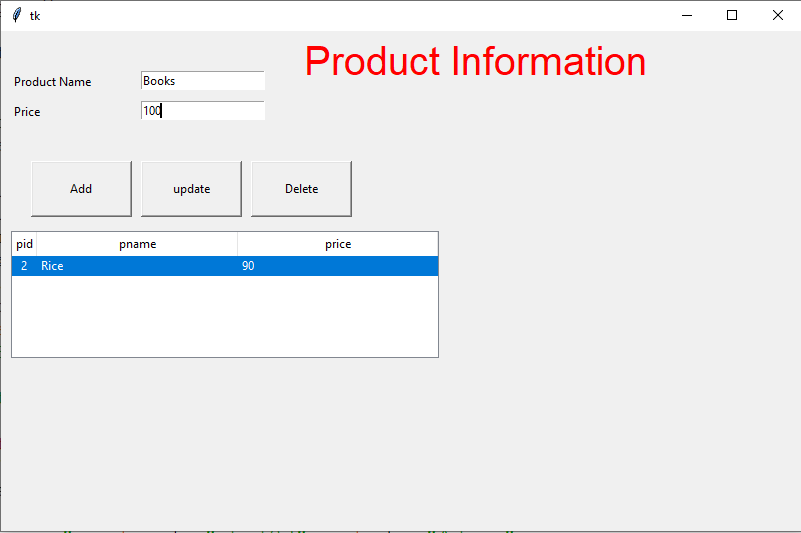
listBox.grid(row=1, column=0, columnspan=2)

listBox.place(x=10, y=200)

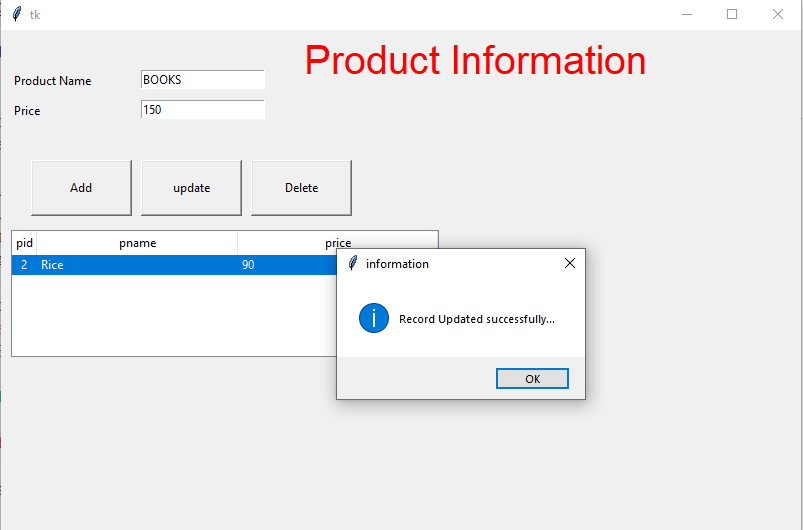
show()

listBox.bind('<Double-Button-1>',GetValue)

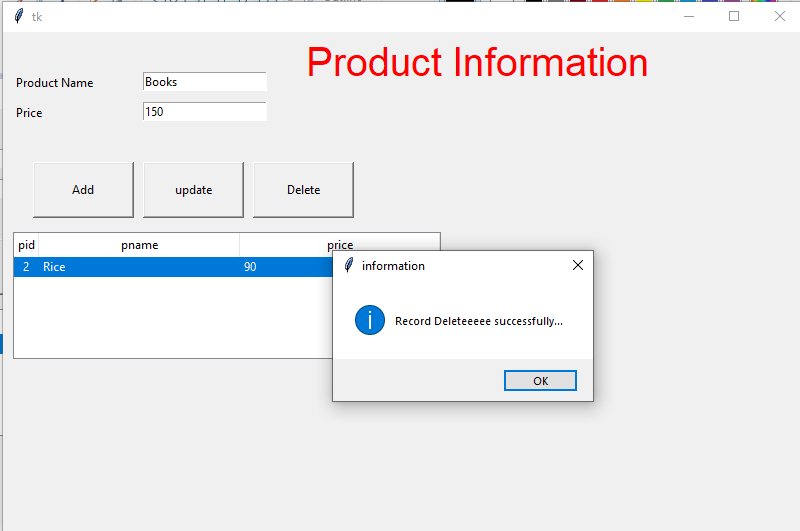
Add Product :



Update Product :

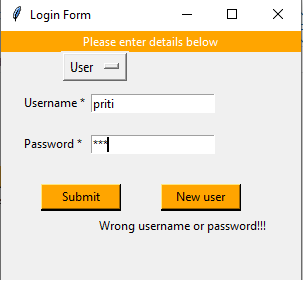


Delete Product :

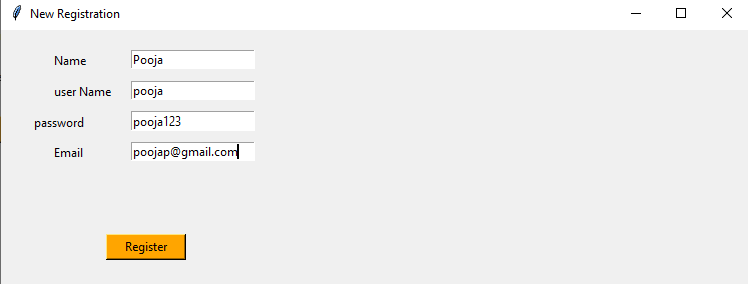


User Details:

By entering wrong UserName and Password:



New User Registration:



User Task Code :

from tkinter import \*

import tkinter as tk

from tkinter import ttk, messagebox

import mysql.connector

def get\_totpr(pn):

conn = mysql.connector.connect(host="localhost",user="root",password="mysqlroot",db="shopping")

cur = conn.cursor()

sql="SELECT price FROM product WHERE pname = %s"

cur.execute(sql,(pn,))

data = cur.fetchone()[0]

conn.close();

return data;

def User\_form(ur):

root = tk.Tk()

root.title("User Form")

root.geometry("500x500")

global list\_data

list\_data = []

global listbox;

global lstbox;

global lsbox;

global content;

global message;

global calc;

global user;

user=ur;

calc = tk.StringVar()

content = tk.StringVar()

message=tk.StringVar()

Label(root, text="enter product name ").place(x=20,y=60)

entry = tk.Entry(root, textvariable=content)

entry.place(x=150,y=60)

Label(root, text="enter Quantity ").place(x=20,y=90)

entry = tk.Entry(root, textvariable=calc)

entry.place(x=150,y=90)

button = tk.Button(root, text="Add Item", command=add\_item)

button.place(x=150,y=120)

Label(root, text="Preview after save").place(x=280,y=170)

button\_delete\_selected = tk.Button(root,text="Delete Selected", command=delete\_selected)

button\_delete\_selected.place(x=150,y=170)

listbox = tk.Listbox(root)

listbox.place(x=150,y=200)

entry.bind("&lt;Return>", add\_item)

lstbox = tk.Listbox(root,width = 50)

lstbox.place(x=280,y=200)

entry.bind("&lt;Return>",preview)

bquit = tk.Button(root, text="save", command=quit)

bquit.place(x=170,y=380)

Label(root, text="",fg="red", textvariable=message).place(x=95,y=400)

def preview(p,qty,pr,tm):

ds="name",p,"qty",qty,"price",pr,"tot amt:",tm

lstbox.insert(tk.END,ds)

def delete():

global list\_data

listbox.delete(0, tk.END)

list\_data = []

def delete\_selected():

try:

selected = listbox.get(listbox.curselection())

listbox.delete(listbox.curselection())

list\_data.pop(list\_data.index(selected))

# reload\_data()

# # listbox.selection\_clear(0, END)

listbox.selection\_set(0)

listbox.activate(0)

listbox.event\_generate("&lt;&lt;ListboxSelect>>")

print(listbox.curselection())

except:

pass

def test\_p(s):

conn = mysql.connector.connect(host="localhost",user="root",password="mysqlroot",db="shopping")

cur = conn.cursor()

sql="SELECT price FROM product where pname=%s"

cur.execute(sql,(s,))

records = cur.fetchall()

tr=cur.rowcount;

if(tr>0):

return True;

else:

return False;

Dict = {}

def add\_item(event=1):

#global list\_data

if content.get() != "" and calc.get() != "":

if test\_p(content.get()):

listbox.insert(tk.END, content.get())

list\_data.append(content.get())

Dict[content.get()]=calc.get()

content.set("")

calc.set("")

message.set("")

else:

message.set("Not valid product refer available product ")

else:

message.set("item or quatity cannot be empty ")

def quit():

conn = mysql.connector.connect(host="localhost",user="root",password="mysqlroot",db="shopping")

cur = conn.cursor()

#with open("save.txt", "w", encoding="utf-8") as file:

for x in Dict.keys():

pr=get\_totpr(x)

#tot=Dict[x]\*pr

query = "insert into tuser(uname,pname,qty,price,totamt)values(%s,%s,%s,%s,%s)"

s1 = (user,x,Dict[x],pr,int(Dict[x])\*(pr))

preview(x,Dict[x],pr,int(Dict[x])\*(pr))

try:

cur.execute(query,s1)

conn.commit();

except Exception as e:

print(e)

conn.close()

print("Query executed successfully")

User\_form("priti")

#print(get\_totpr('fg',3))

from tkinter import \*

import tkinter as tk

from tkinter import ttk, messagebox

import mysql.connector

def get\_totpr(pn):

conn = mysql.connector.connect(host="localhost",user="root",password="mysqlroot",db="shopping")

cur = conn.cursor()

sql="SELECT price FROM product WHERE pname = %s"

cur.execute(sql,(pn,))

data = cur.fetchone()[0]

conn.close();

return data;

def User\_form(ur):

root = tk.Tk()

root.title("User Form")

root.geometry("500x500")

global list\_data

list\_data = []

global listbox;

global lstbox;

global lsbox;

global content;

global message;

global calc;

global user;

user=ur;

calc = tk.StringVar()

content = tk.StringVar()

message=tk.StringVar()

Label(root, text="enter product name ").place(x=20,y=60)

entry = tk.Entry(root, textvariable=content)

entry.place(x=150,y=60)

Label(root, text="enter Quantity ").place(x=20,y=90)

entry = tk.Entry(root, textvariable=calc)

entry.place(x=150,y=90)

button = tk.Button(root, text="Add Item", command=add\_item)

button.place(x=150,y=120)

Label(root, text="Preview after save").place(x=280,y=170)

button\_delete\_selected = tk.Button(root,text="Delete Selected", command=delete\_selected)

button\_delete\_selected.place(x=150,y=170)

listbox = tk.Listbox(root)

listbox.place(x=150,y=200)

entry.bind("&lt;Return>", add\_item)

lstbox = tk.Listbox(root,width = 50)

lstbox.place(x=280,y=200)

entry.bind("&lt;Return>",preview)

bquit = tk.Button(root, text="save", command=quit)

bquit.place(x=170,y=380)

Label(root, text="",fg="red", textvariable=message).place(x=95,y=400)

def preview(p,qty,pr,tm):

ds="name",p,"qty",qty,"price",pr,"tot amt:",tm

lstbox.insert(tk.END,ds)

def delete():

global list\_data

listbox.delete(0, tk.END)

list\_data = []

def delete\_selected():

try:

selected = listbox.get(listbox.curselection())

listbox.delete(listbox.curselection())

list\_data.pop(list\_data.index(selected))

# reload\_data()

# # listbox.selection\_clear(0, END)

listbox.selection\_set(0)

listbox.activate(0)

listbox.event\_generate("&lt;&lt;ListboxSelect>>")

print(listbox.curselection())

except:

pass

def test\_p(s):

conn = mysql.connector.connect(host="localhost",user="root",password="mysqlroot",db="shopping")

cur = conn.cursor()

sql="SELECT price FROM product where pname=%s"

cur.execute(sql,(s,))

records = cur.fetchall()

tr=cur.rowcount;

if(tr>0):

return True;

else:

return False;

Dict = {}

def add\_item(event=1):

#global list\_data

if content.get() != "" and calc.get() != "":

if test\_p(content.get()):

listbox.insert(tk.END, content.get())

list\_data.append(content.get())

Dict[content.get()]=calc.get()

content.set("")

calc.set("")

message.set("")

else:

message.set("Not valid product refer available product ")

else:

message.set("item or quatity cannot be empty ")

def quit():

conn = mysql.connector.connect(host="localhost",user="root",password="mysqlroot",db="shopping")

cur = conn.cursor()

#with open("save.txt", "w", encoding="utf-8") as file:

for x in Dict.keys():

pr=get\_totpr(x)

#tot=Dict[x]\*pr

query = "insert into tuser(uname,pname,qty,price,totamt)values(%s,%s,%s,%s,%s)"

s1 = (user,x,Dict[x],pr,int(Dict[x])\*(pr))

preview(x,Dict[x],pr,int(Dict[x])\*(pr))

try:

cur.execute(query,s1)

conn.commit();

except Exception as e:

print(e)

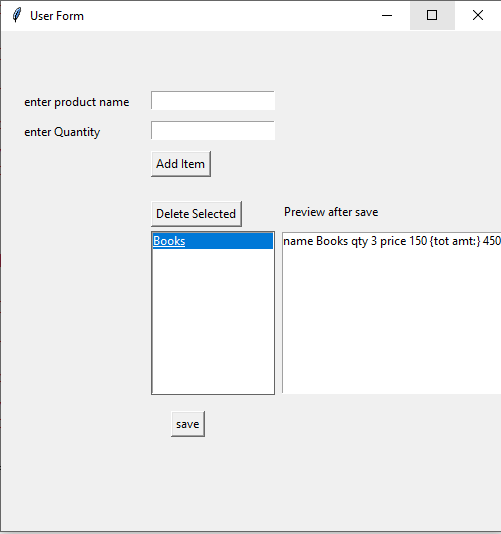
conn.close()

print("Query executed successfully")

User\_form("priti")

#print(get\_totpr('fg',3))

User Can Add ,Delete product and View the Bill :



5.BIBLIOGRAPHY:

1) Python Crash Course: A Hands-On, Project-Based Introduction to Programming by Eric Matthes.

2) Automate the Boring Stuff With Python: Practical Programming for Total Beginners by Al Sweigart