PROJECT REPORT

ON

"KIRANA KART"

Submitted in partial fulfillment of the

Requirement for the award of the degree of

Bachelor of Computer Application

योगः कर्मसु कौशलम्

IN PURSUIT OF PERFECTION

Submitted to:

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CERTIFICATE

This is to certify that I Manan Kumar Pal of BCA 5th Semester from Vivekananda Institute of Professional Studies, Delhi has presented this project work entitled "KIRANA KART", a shopping portal in partial fulfillment of the requirements for the award of the degree of Bachelor of Computer Applications under our supervision and guidance.

ACKNOWLEDGEMENT

It is our proud privilege to express our profound gratitude to the entire management of Vivekananda Institute of Professional Studies and teachers of the institute for providing us with the opportunity to avail the excellent facilities and infrastructure. The knowledge and values inculcated have proved to be of immense help at the very start of my career. Special thanks to Hon'ble Founder, Vivekananda Institute of Professional Studies, Delhi for having provided us an excellent infrastructure at VSIT.

I am grateful to Prof. (Dr.) Supriya Madan (Dean, VSIT), and Ms. Indu Sahu for their astute guidance, constant encouragement, and sincere support for this project work.

Sincere thanks to all my family members, seniors and friends for their support and assistance throughout the project.

Student Name

Manan Kumar Pal

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Chapter 1

INTRODUCTION

Our grocery app, [KiranaKart], aims to make grocery shopping more convenient and efficient for busy individuals and families. With our app, users can browse and search for products, create and save shopping lists, and even place orders for delivery or pickup at their local store. Additionally, the app will include features such as personalized recommendations, special deals and promotions, and a built-in rewards program. Our goal is to provide a seamless and enjoyable shopping experience that saves users time and money.

1.1 OBJECTIVE OF THE SYSTEM

Current system customers have placed orders through phone calls, messages, or face-to-face communication. In the current system, the customer does not think about whether products are available or not.

1.2 JUSTIFICATION AND NEED FOR THE SYSTEM

Nowadays when everyone is so busy and occupied, we all want ease of work. And with the lack of time arises the need of these kinds of applications that would provide all the facilities to the customer (user), and the manager/admin at one place.

PROBLEM WITH THE EXISTING SYSTEM:-

The current system totally works manually.

The existing system is based on a phone call or face-to-face communication.

The current system is very hard to operate and maintain.

The paper-based work so the records are lost sometimes.

1.3 Advantages of the system

- Effective communication between admin and customer.
- Payment systems are available.
- Home delivery is available.
- Customers are aware of products and see what's products available or not.
- The product is nice or not given feedback.
- View a product review.

Chapter 2

DESIGN OF THE SYSTEM

2.1 Software requirements

- Python 3.6 or higher (32 bit or 64 bit)
- mysql-connector package (Through PIP)
- ttkthemes extension for tkinter (Through PIP)

2.2 Hardware Requirements

1. Recommended System Requirements :
   - Processors:
   - Intel® Core™ i5 processor 4300M at 2.60 GHz or 2.59 GHz, 8 GB of DRAM
   - Disk space: 2 to 3 GB
   - Operating systems: Windows® 10, macOS*, and Linux*

2. Minimum System Requirements :
   - Processors:
   - Intel Atom® processor or Intel® Core™ i3 processor
   - Disk space: 1 GB
   - Operating systems: Windows* 7 or later, macOS, and Linux

2.3 Modules/Extensions Used

1. Tkinter :

   Tkinter is a Python binding to the Tk GUI toolkit. It is the standard Python interface to the Tk GUI toolkit, and is Python's de facto standard GUI. Tkinter is included with standard Linux, Microsoft Windows and Mac OS X installs of Python.

We used this module to make GUI for user and admin to interact with and with this module program gives a more realistic experience to the user

2. ttkthemes :

   It allows Tk widgets to be easily themed to look like the native desktop environment in which the application is running. It is simply and extension for the Tkinter Module which is needed to be downloaded separately and imported in the program. The sole purpose of using this extension is to make the GUI more attractive and more responsive

3. Mysql.connector :

   It is an ODBC (Open Database Connectivity) interface and allows programming languages that support the ODBC interface to communicate with a MySQL database. MySQL Connector/ODBC was originally created by "MySQL AB".

   We used this in our project for entering the required data, retrieval of products for user and for the overall data management of our Kirana Kart.

2.4 Files Used

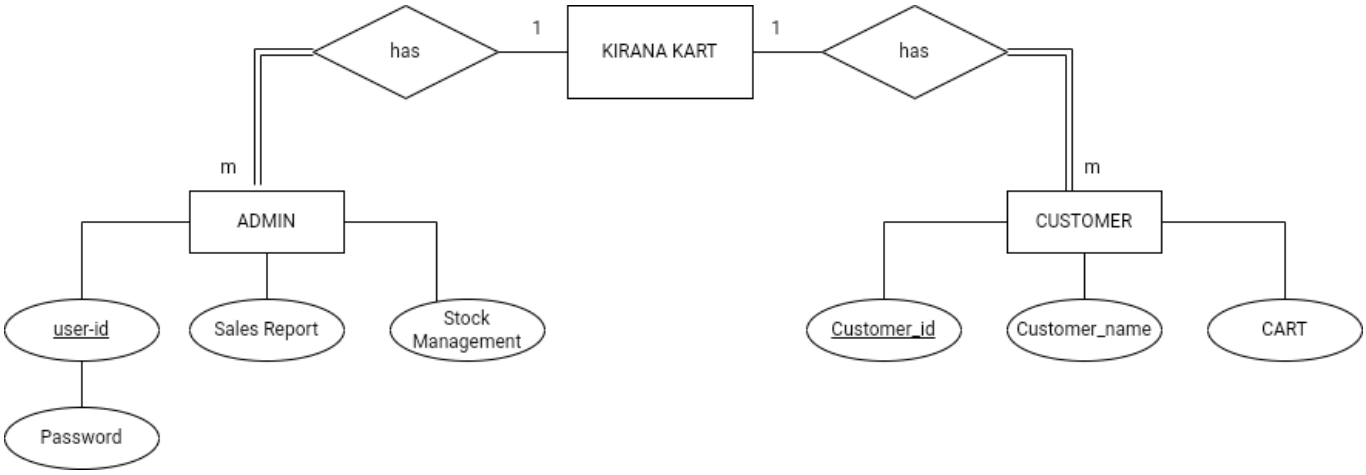
1. Program File :

   - Kirana Kart.py

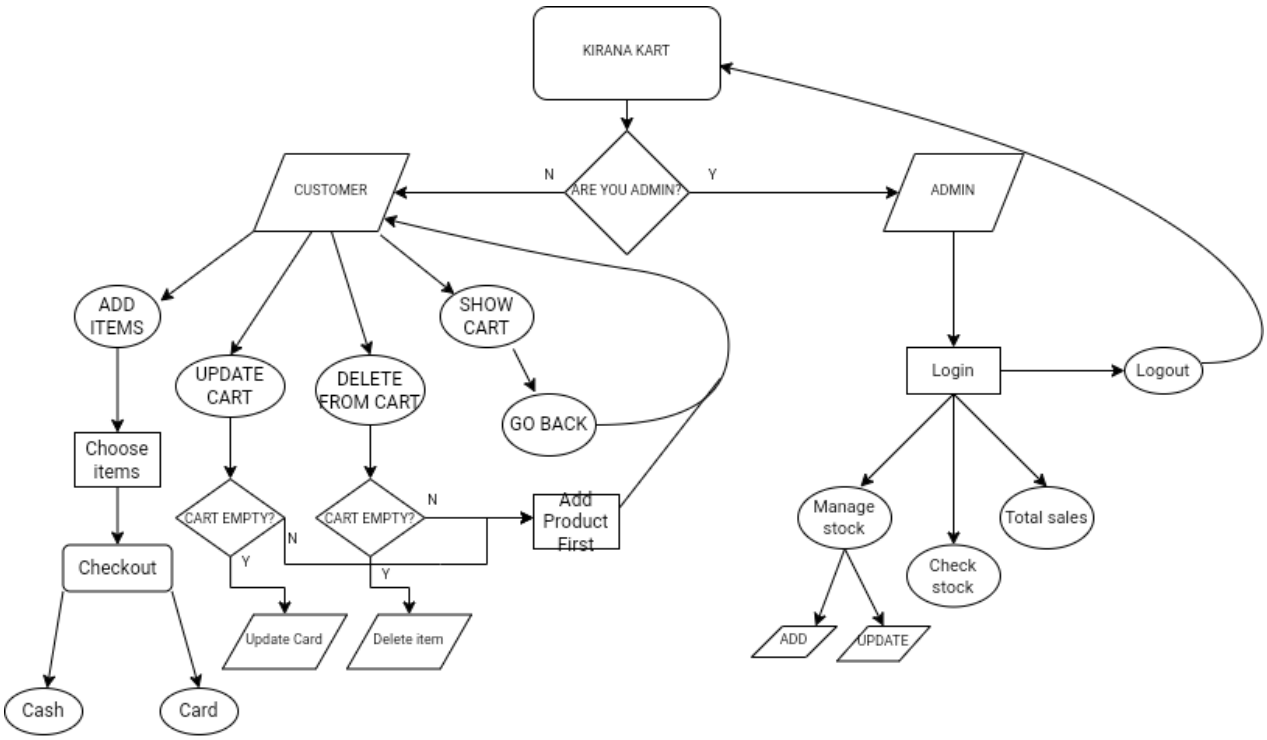
2. Image Files :

   - ICON.ico
   - Background.png
   - Logo.png
   - customer.png
   - Admin.png
   - Cash.png
   - Card.png
   - Manage.png
   - Check.png
   - Sales.png
   - Logout.png

2.5 ER DIAGRAM



2.6 DATA FLOW DIAGRAM (DFD)



Chapter 3

IMPLEMENTATION AND CODING

3.1 Working Description

This Project is designed to have an experience which a person will get while interacting with a shopping application.

This program consists of 3 main functions and several further functions in the main function as mentioned below:

1. Start As Customer :
    - Add product to cart
    - Delete product from cart
    - Update cart
    - Show cart
    - Proceed for billing
        - ♦ Payment by cash
        - ♦ Payment by credit/debit card
    - Receipt generation

2. Start as Admin :
    - Validation through user-id and password
    - Manage stock
    - Check stock
    - Total sales check
    - Logout

3. Exit :
    - To exit without shopping

3.2 CODING

```
import mysql.connector as con

from tkinter import ttk

from tkinter import *

from tkinter.ttk import *

from tkinter import messagebox


db=con.connect(host='localhost',user='root',passwd='12345')

cur=db.cursor()

"""

These try and except block provides a uninterrupted workflow of the program as they create the tables and database automatically

if it does not exist on the mysql server on which the following program is running

"""

#cur.execute("drop database reliancestore")

try:

    cur.execute("create database Reliancestore")

    cur.execute("use Reliancestore")

    cur.execute("create table user(Username varchar(20),Password varchar(20))")

    cur.execute("create table reciept(Pcode varchar(5) PRIMARY KEY,Pname varchar(20),quantity varchar(10),price varchar(5))")

    cur.execute("create table customer(Pcode varchar(5) PRIMARY KEY,Pname varchar(20),quantity varchar(10),price varchar(5))")

    cur.execute("insert into user values(%s,%s)",("admin007","0075RXT"))

    db.commit()

    cur.execute("create table totalsales(Cust_Name varchar(20),Amount varchar(7))")

    cur.execute("create table stock(Pcode varchar(5) PRIMARY KEY,Pname varchar(20),quantity varchar(10),price varchar(5))")
```

```
    # Entering default 5 products in the product list
    products=["Rin","Vimbar","Butter(500g)","Fogg Perfume","Colgate"]
    Price=["175","40","220","250","142"]
    qty=10
    for i in range(0,6):
        x=products[i]
        y=Price[i]
        cur.execute("insert into stock values(%s,%s,%s,%s)",(str(i+1),x,qty,y))
        db.commit()
except:
    #using the database and tables if they already exists
    cur.execute("use Reliancestore")
try:
    """
    Deleting and recreating the customer oriented tables so that the cart remains empty over the successive runs of the program
    on the same machine
    """
    cur.execute("drop table reciept")
    cur.execute("create table reciept(Pcode varchar(5) PRIMARY KEY,Pname varchar(20),quantity varchar(10),price varchar(5))")
    cur.execute("drop table customer")
    cur.execute("create table customer(Pcode varchar(5) PRIMARY KEY,Pname varchar(20),quantity varchar(10),price varchar(5))")
except:
    pass
```

```
##############        FUNCTIONING OF THE DATABASE      ####################

"""

Documentation of the program:-

These are the functions we will be using for manipulating the data in our database which is stored in various tables according to the

need of the hour...

The project is all about what a customer/admin will come across while using an application of a shopping store.. Aim of Using Tkinter

is to provide the program a feel of using a real application

"""

def insert():

    global v1

    global v2

    global v3

    global v4

    cd=v1.get()

    nm=v2.get()

    qty=v3.get()

    pr=v4.get()

    cur.execute("select quantity from stock where Pcode={}".format(str(cd)))

    rec=cur.fetchall()

    sqty=rec[0]

    if(qty!=''):

        if (int(qty)>0 and int(qty)<int(sqty[0])):

            cur.execute("insert into reciept values (%s,%s,%s,%s)",(cd,nm,qty,pr))

            cur.execute("insert into customer values (%s,%s,%s,%s)",(cd,nm,qty,pr))

            db.commit()

            messagebox.showinfo("Kirana Kart ","Succesful!")
```

```
        elif(int(qty)>int(sqty[0])):
            messagebox.showinfo("Kirana Kart ","Sorry. We have inadequate stocks")
        else:
            messagebox.showinfo("Kirana Kart ","Please set the quantity to atleast 1")
    else:
        messagebox.showinfo("Kirana Kart ","Quantity is a mandatory field and cannot be left empty")
def search():
    global v1
    global v2
    global v3
    global v4
    Pcode=v1.get()
    sql="select * from stock where Pcode=%s"
    val=(Pcode,)
    cur.execute(sql,val)
    res=cur.fetchall()
    for x in res:
        v2.set(x[1])
        v4.set(x[3])
def search1():
    global v1
    global v2
    global v3
    global v4
    Pcode=v1.get()
    sql="select * from reciept where Pcode=%s"
    val=(Pcode,)
    cur.execute(sql,val)
```

```
    res=cur.fetchall()
    for x in res:
        v2.set(x[1])
        v4.set(x[3])
def update():
    global v1
    global v2
    global v3
    global v4
    cd=v1.get()
    nm=v2.get()
    qty=v3.get()
    pr=v4.get()
    sql1="update reciept set Pname=%s,quantity=%s,price=%s where Pcode=%s"
    sql="update customer set Pname=%s,quantity=%s,price=%s where Pcode=%s"
    val=(nm,qty,pr,cd)
    cur.execute(sql,val)
    cur.execute(sql1,val)
    db.commit()
    messagebox.showinfo("Kirana Kart","Updation of records will be highlited when you again visit this section")
def delete():
    global v1
    global v2
    global v3
    global v4
    cd=v1.get()
    sql="delete from customer where Pcode=%s"
    sql2="delete from reciept where Pcode=%s"
```

```
    val=(cd,)
    cur.execute(sql,val)
    cur.execute(sql2,val)
    db.commit()
    messagebox.showinfo("Kirana Kart","deletion of records will be highlited when you again visit this section")
def clear():
    global v1
    global v2
    global v3
    global v4
    v1.set('')
    v2.set('')
    v3.set('')
    v4.set('')
def back():
    global root1
    global root
    global P1
    global P2
    global img
    global img2
    root1.destroy()
    root=Tk()
    root.geometry("500x500+70+100")
    root.title("Kirana Kart")
    root.iconbitmap("ICON.ico")
```

```
    img = PhotoImage(file="Background.png",master=root)
    img2= PhotoImage(file="LOGO.png",master=root)
    Label(root,image=img).place(x=0,y=0)
    Label(root,image=img2).place(x=60,y=0)
    Label(root,text="©2022",font="arial 7 ").place(x=60,y=113)
    Label(root,text="You need it , We got it ",font="arial 14 bold").place(x=150,y=140)
   Label(root,text="How do you wish to continue?",font="arial 14 bold").place(x=120,y=180)
    P1= PhotoImage(file="Admin.png",master=root)
    P2= PhotoImage(file="customer.png",master=root)
    Button(root,text="ADMIN",command=admin, image= P1).place(x=90,y=230)
    Label(root,text="Admin",font="arial 14 bold").place(x=110,y=350)
    Button(root,text="CUSTOMER",command=customer,image= P2).place(x=300,y=230)
    Label(root,text="Customer",font="arial 14 bold").place(x=310,y=350)
    Button(root,text="EXIT",command=exit).place(x=420,y=470)
def exit():
    global root
    messagebox.showinfo("EXIT","Thanks For Using Our Application")
    root.destroy()
def exitt():
    global root2
    global v1
    global Gt
    name= v1.get()
    if (name=="" or name==" "):
        messagebox.showinfo("Kirana Kart","Mandatory (*) Fields cannot be empty")
    else:
        cur.execute("insert into totalsales values(%s,%s)",(name,Gt))
        db.commit()
```

```
        messagebox.showinfo("EXIT","Thanks For Shopping with us")
        root2.destroy()
########################       CUSTOMER VIEW STARTS HERE      ############################
"""
This is the customer view.. In this section we will be dealing with what a customer can do on/with our program.. providing features
to the customer is the sole purpose of this section... PS- please start reading from the bottom where this section ends as the views
are created backwards starting from the very first "customer" function from the bottom of this section...
"""
def Goback():
    global root2
    global root3
    global root1
    global img
    global img2
    try:
        root3.destroy()
        root2.destroy()
        root1=Tk()
        root1.geometry("500x500+70+100")
        root1.title("Customer")
        root1.iconbitmap("ICON.ico")
        img = PhotoImage(file="Background.png",master=root1)
        img2= PhotoImage(file="LOGO.png",master=root1)
        Label(root1,image=img).place(x=0,y=0)
        Label(root1,image=img2).place(x=60,y=0)
        Label(root1,text="©2022",font="arial 7 ").place(x=60,y=113)
```

```
    Label(root1,text="WHAT DO YOU WANT TO DO?",font="arial 14 bold").place(x=110,y=170)
    Label(root1,text="First lets Add items to cart ?",font="arial 8 bold").place(x=160,y=200)
    Button(root1,text="ADD TO CART FROM PRODUCT LIST",command=insertscr).place(x=15,y=260)
    Button(root1,text="DELETE FROM CART",command=deletescr).place(x=370,y=260)
    Button(root1,text="UPDATE FIELD OF EXISTING PRODUCT",command=updatescr).place(x=15,y=300)
    Button(root1,text="SHOW CART",command=showscr).place(x=370,y=300)
    Button(root1,text="Proceed for billing",command=billing).place(x=200,y=370)
    Button(root1,text="Go Back",command=back).place(x=420,y=470)
except:
    root2.destroy()
    root1=Tk()
    root1.geometry("500x500+70+100")
    root1.title("Customer")
    root1.iconbitmap("ICON.ico")
    img = PhotoImage(file="Background.png",master=root1)
    img2= PhotoImage(file="LOGO.png",master=root1)
    Label(root1,image=img).place(x=0,y=0)
    Label(root1,image=img2).place(x=60,y=0)
    Label(root1,text="©2022",font="arial 7 ").place(x=60,y=113)
    Label(root1,text="WHAT DO YOU WANT TO DO?",font="arial 14 bold").place(x=110,y=170)
    Label(root1,text="First lets Add items to cart ?",font="arial 8 bold").place(x=160,y=200)
    Button(root1,text="ADD TO CART FROM PRODUCT LIST",command=insertscr).place(x=15,y=260)
    Button(root1,text="DELETE FROM CART",command=deletescr).place(x=370,y=260)
    Button(root1,text="UPDATE FIELD OF EXISTING PRODUCT",command=updatescr).place(x=15,y=300)
    Button(root1,text="SHOW CART",command=showscr).place(x=370,y=300)
    Button(root1,text="Proceed for billing",command=billing).place(x=200,y=370)
    Button(root1,text="Go Back",command=back).place(x=420,y=470)
```

```
def insertscr():
    global root1
    global root3
    global root2
    global v1
    global v2
    global v3
    global v4
    global img
    global img2
    global imag
    global imag2
    root1.destroy()
    root2=Tk()
    root2.geometry("500x500+70+100")
    root2.title("Kirana Kart")
    root2.iconbitmap("ICON.ico")
    img = PhotoImage(file="Background.png",master=root2)
    img2= PhotoImage(file="LOGO.png",master=root2)
    L1=Label(root2,image=img)
    L1.place(x=0,y=0)
    L2=Label(root2,image=img2)
    L2.place(x=60,y=0)
    Label(root2,text="©2022",font="arial 7 ").place(x=60,y=113)

    v1=StringVar(root2)
    v2=StringVar(root2)
    v3=StringVar(root2)
```

```
v4=StringVar(root2)

Label(root2,text="Cart Generator",font="arial 14 bold").place(x=170,y=150)
Label(root2,text="Note:- Please enter the exact product details from the List",font="arial 14").place(x=6,y=200)
Label(root2,text="Product Code",font="arial 12 bold").place(x=50,y=250)
Label(root2,text="Product Name",font="arial 12 bold").place(x=50,y=300)
Label(root2,text="Quantity",font="arial 12 bold").place(x=50,y=350)
Label(root2,text="Price",font="arial 12 bold").place(x=50,y=400)

e1=Entry(root2,textvariable=v1).place(x=200,y=250)
e2=Entry(root2,textvariable=v2).place(x=200,y=300)
e3=Entry(root2,textvariable=v3).place(x=200,y=350)
e4=Entry(root2,textvariable=v4).place(x=200,y=400)

Button(root2,text="Search",command=search).place(x=350,y=250)
Button(root2,text="Add",command=insert).place(x=270,y=440)
Button(root2,text="Clear",command=clear).place(x=170,y=440)
Button(root2,text="Go Back",command=Goback).place(x=420,y=470)

i=200
cur.execute("select * from stock")
rec=cur.fetchall()

root3=Tk()
root3.geometry("500x500+600+100")
root3.title("Current Stock")
root3.iconbitmap("ICON.ico")
```

```
    imag = PhotoImage(file="Background.png",master=root3)
    imag2= PhotoImage(file="LOGO.png",master=root3)
    Label(root3,image=imag).place(x=0,y=0)
    Label(root3,image=imag2).place(x=60,y=0)
    Label(root3,text="©2022",font="arial 7 ").place(x=60,y=113)

    Label(root3,text="Product code",font="arial 11 ").place(x=50,y=150)
    Label(root3,text="Product Name",font="arial 11 ").place(x=200,y=150)
    #Label(root3,text="Quantity",font="arial 11 ").place(x=270,y=150)
    Label(root3,text="Product Price",font="arial 11 ").place(x=345,y=150)

    for x in rec:
        Label(root3,text=x[0],width=12,relief=GROOVE).place(x=60,y=i)
        Label(root3,text=x[1],width=12,relief=GROOVE).place(x=210,y=i)
        #Label(root3,text=x[2],width=7,relief=GROOVE).place(x=278,y=i)
        Label(root3,text=x[3],width=12,relief=GROOVE).place(x=355,y=i)
        i=i+20

def deletescr():
    global root1
    global root3
    global root2
    global v1
    global img
    global img2
    global imag
    global imag2
```

```
#deleting by product code only


cur.execute("select * from customer")
reco=cur.fetchall()


if (reco==[]):
    messagebox.showinfo("Kirana Kart","Cart empty! Cannot proceed.")
else:
    root1.destroy()


    i=200


    cur.execute("select * from reciept")
    rec=cur.fetchall()


    root2=Tk()
    root2.geometry("500x500+600+100")
    root2.title("Your Cart")
    root2.iconbitmap("ICON.ico")


    img = PhotoImage(file="Background.png",master=root2)
    img2= PhotoImage(file="LOGO.png",master=root2)
    Label(root2,image=img).place(x=0,y=0)
    Label(root2,image=img2).place(x=60,y=0)
    Label(root2,text="©2022",font="arial 7 ").place(x=60,y=113)


    Label(root2,text="Product code",font="arial 11 ").place(x=50,y=150)
    Label(root2,text="Product Name",font="arial 11 ").place(x=155,y=150)
```

```
Label(root2,text="Quantity",font="arial 11 ").place(x=270,y=150)
Label(root2,text="Product Price",font="arial 11 ").place(x=345,y=150)

for x in rec:
    Label(root2,text=x[0],width=12,relief=GROOVE).place(x=60,y=i)
    Label(root2,text=x[1],width=12,relief=GROOVE).place(x=165,y=i)
    Label(root2,text=x[2],width=7,relief=GROOVE).place(x=278,y=i)
    Label(root2,text=x[3],width=12,relief=GROOVE).place(x=355,y=i)
    i=i+20

root3=Tk()
root3.geometry("500x500+70+100")
root3.title("Kirana Kart")
root3.iconbitmap("ICON.ico")

imag = PhotoImage(file="Background.png",master=root3)
imag2= PhotoImage(file="LOGO.png",master=root3)
Label(root3,image=imag).place(x=0,y=0)
Label(root3,image=imag2).place(x=60,y=0)
Label(root3,text="©2022",font="arial 7 ").place(x=60,y=113)

v1=StringVar(root3)

Label(root3,text="DELETE RECORDS",font="arial 14 bold").place(x=155,y=150)

Label(root3,text="Enter Product code",font="arial 12 bold").place(x=50,y=200)
e1=Entry(root3,textvariable=v1).place(x=250,y=200)
Button(root3,text="Delete",command=delete).place(x=275,y=250)
```

```
        Button(root3,text="Go Back",command=Goback).place(x=420,y=470)


def updatescr():
    global root1
    global root3
    global root2
    global v1
    global v2
    global v3
    global v4
    global img
    global img2
    global imag
    global imag2


    cur.execute("select * from customer")
    reco=cur.fetchall()


    if (reco==[]):
        messagebox.showinfo("Kirana Kart","Cart empty! Cannot proceed.")
    else:
        root1.destroy()


        i=200
        cur.execute("select * from reciept")
        rec=cur.fetchall()


        root2=Tk()
```

```
root2.geometry("500x500+600+100")
root2.title("Your Cart")
root2.iconbitmap("ICON.ico")

img = PhotoImage(file="Background.png",master=root2)
img2= PhotoImage(file="LOGO.png",master=root2)
Label(root2,image=img).place(x=0,y=0)
Label(root2,image=img2).place(x=60,y=0)
Label(root2,text="©2022",font="arial 7 ").place(x=60,y=113)

Label(root2,text="Product code",font="arial 11 ").place(x=50,y=150)
Label(root2,text="Product Name",font="arial 11 ").place(x=155,y=150)
Label(root2,text="Quantity",font="arial 11 ").place(x=270,y=150)
Label(root2,text="Product Price",font="arial 11 ").place(x=345,y=150)

for x in rec:
    Label(root2,text=x[0],width=12,relief=GROOVE).place(x=60,y=i)
    Label(root2,text=x[1],width=12,relief=GROOVE).place(x=165,y=i)
    Label(root2,text=x[2],width=7,relief=GROOVE).place(x=278,y=i)
    Label(root2,text=x[3],width=12,relief=GROOVE).place(x=355,y=i)
    i=i+20

root3=Tk()
root3.geometry("500x500+70+100")
root3.title("Kirana Kart")
root3.iconbitmap("ICON.ico")

imag = PhotoImage(file="Background.png",master=root3)
```

```
    imag2= PhotoImage(file="LOGO.png",master=root3)
    Label(root3,image=imag).place(x=0,y=0)
    Label(root3,image=imag2).place(x=60,y=0)
    Label(root3,text="©2022",font="arial 7 ").place(x=60,y=113)

    v1=StringVar(root3)
    v2=StringVar(root3)
    v3=StringVar(root3)
    v4=StringVar(root3)

    Label(root3,text="Cart Update",font="arial 14 bold").place(x=170,y=150)
    Label(root3,text="Kindly try not to make a mistake this time. Thanks!",font="arial 14").place(x=35,y=200)
    Label(root3,text="Product Code",font="arial 12 bold").place(x=50,y=250)
    Label(root3,text="Product Name",font="arial 12 bold").place(x=50,y=300)
    Label(root3,text="Quantity",font="arial 12 bold").place(x=50,y=350)
    Label(root3,text="Price",font="arial 12 bold").place(x=50,y=400)

    e1=Entry(root3,textvariable=v1).place(x=200,y=250)
    e2=Entry(root3,textvariable=v2).place(x=200,y=300)
    e3=Entry(root3,textvariable=v3).place(x=200,y=350)
    e4=Entry(root3,textvariable=v4).place(x=200,y=400)

    Button(root3,text="Search",command=search1).place(x=350,y=250)
    Button(root3,text="Update",command=update).place(x=270,y=440)
    Button(root3,text="Clear",command=clear).place(x=170,y=440)
    Button(root3,text="Go Back",command=Goback).place(x=420,y=470)

def showscr():
```

```
global root1
global root2
global img
global img2

cur.execute("select * from customer")
reco=cur.fetchall()

if (reco==[]):
    messagebox.showinfo("Kirana Kart","Cart empty! Cannot proceed.")
else:
    root1.destroy()

    i=200
    cur.execute("select * from reciept")
    rec=cur.fetchall()

    root2=Tk()
    root2.geometry("500x500+70+100")
    root2.title("Your Cart")
    root2.iconbitmap("ICON.ico")

    img = PhotoImage(file="Background.png",master=root2)
    img2= PhotoImage(file="LOGO.png",master=root2)
    Label(root2,image=img).place(x=0,y=0)
    Label(root2,image=img2).place(x=60,y=0)
    Label(root2,text="©2022",font="arial 7 ").place(x=60,y=113)
```

```
        Label(root2,text="Product code",font="arial 11 ").place(x=50,y=150)
        Label(root2,text="Product Name",font="arial 11 ").place(x=155,y=150)
        Label(root2,text="Quantity",font="arial 11 ").place(x=270,y=150)
        Label(root2,text="Product Price",font="arial 11 ").place(x=345,y=150)

        for x in rec:
            Label(root2,text=x[0],width=12,relief=GROOVE).place(x=60,y=i)
            Label(root2,text=x[1],width=12,relief=GROOVE).place(x=165,y=i)
            Label(root2,text=x[2],width=7,relief=GROOVE).place(x=278,y=i)
            Label(root2,text=x[3],width=12,relief=GROOVE).place(x=355,y=i)
            i=i+20

        Button(root2,text="Go Back",command=Goback).place(x=420,y=470)

def FSCR():
    global root2
    global root3
    global img
    global img2
    global Gt
    global P1
    global P2
    global v1

    root2.destroy()

    root2=Tk()
    root2.geometry("500x500+70+100")
```

```
root2.title("Bill Generator")
root2.iconbitmap("ICON.ico")

img = PhotoImage(file="Background.png",master=root2)
img2= PhotoImage(file="LOGO.png",master=root2)
Label(root2,image=img).place(x=0,y=0)
Label(root2,image=img2).place(x=60,y=0)
Label(root2,text="©2022",font="arial 7 ").place(x=60,y=113)

Label(root2,text="Order Summary",font="arial 12 bold").place(x=50,y=140)

i=200
j=200

cur.execute("select price * quantity as Total from reciept")
total=cur.fetchall()

Gt=0
Gr=list(map(sum, total))
for x in Gr:
    Gt=Gt+x

cur.execute("select * from reciept")
Prods=cur.fetchall()

Label(root2,text="Product code",font="arial 11 ").place(x=50,y=170)
Label(root2,text="Product Name",font="arial 11 ").place(x=155,y=170)
Label(root2,text="Quantity",font="arial 11 ").place(x=270,y=170)
```

```
    Label(root2,text="Total Price",font="arial 11 ").place(x=350,y=170)

    for x in Prods:
        Label(root2,text=x[0],width=12,relief=GROOVE).place(x=60,y=i)
        Label(root2,text=x[1],width=12,relief=GROOVE).place(x=165,y=i)
        Label(root2,text=x[2],width=7,relief=GROOVE).place(x=278,y=i)
        i=i+20
        cur.execute("update stock set quantity=quantity-{} where Pcode={}".format(x[2],x[0]))

    for x in range(0,len(total)):
        Label(root2,text=total[x],width=12,relief=GROOVE).place(x=355,y=j)
        j=j+20

    Label(root2,text=Gt,width=12,relief=GROOVE).place(x=355,y=400)
    Label(root2,text="Grand Total",width=10,font="arial 11").place(x=270,y=400)

    v1=StringVar(root2)
    e1=Entry(root2,textvariable=v1).place(x=350,y=440)
    Label(root2,text="*Please enter your name",font="arial 11").place(x=180,y=440)

    Button(root2,text="Done",command=exitt).place(x=380,y=470)

def Cpurchase():
    global root2
    global root3
    global img
    global img2
    global Gt
```

```
global P1
global P2

root2.destroy()
root2=Tk()
root2.geometry("500x500+70+100")
root2.title("Confirm purchase")
root2.iconbitmap("ICON.ico")

img = PhotoImage(file="Background.png",master=root2)
img2= PhotoImage(file="LOGO.png",master=root2)
Label(root2,image=img).place(x=0,y=0)
Label(root2,image=img2).place(x=60,y=0)
Label(root2,text="©2022",font="arial 7 ").place(x=60,y=113)

Label(root2,text="Please select a payment option :",font="arial 12 bold").place(x=50,y=150)

P1= PhotoImage(file="Card.png",master=root2)
P2= PhotoImage(file="Cash.png",master=root2)
Button(root2,text="Card",command=FSCR, image= P1).place(x=70,y=220)
Label(root2,text="Credit/Debit Card",font="arial 14 bold").place(x=40,y=370)

Button(root2,text="Cash",command=FSCR,image= P2).place(x=320,y=220)
Label(root2,text="Cash",font="arial 14 bold").place(x=350,y=370)

txt="Your total payable amount is:-"+str(Gt)
Label(root2,text=txt,font="arial 12 bold").place(x=50,y=175)
Button(root2,text="Go Back",command=Goback).place(x=420,y=470)
```

```
def billing():
    global root1
    global root2
    global img
    global img2
    global Gt

    cur.execute("select * from customer")
    reco=cur.fetchall()

    if (reco==[]):
        messagebox.showinfo("Kirana Kart","Cart empty! Cannot proceed.")
    else:
        root1.destroy()

        root2=Tk()
        root2.geometry("500x500+70+100")
        root2.title("Bill Generator")
        root2.iconbitmap("ICON.ico")

        img = PhotoImage(file="Background.png",master=root2)
        img2= PhotoImage(file="LOGO.png",master=root2)
        Label(root2,image=img).place(x=0,y=0)
        Label(root2,image=img2).place(x=60,y=0)
        Label(root2,text="©2022",font="arial 7 ").place(x=60,y=113)

        Label(root2,text="Your Bill",font="arial 12 bold").place(x=50,y=150)
```

```
i=200
j=200

cur.execute("select price * quantity as Total from reciept")
total=cur.fetchall()

Gt=0
Gr=list(map(sum, total))
for x in Gr:
    Gt=Gt+x

cur.execute("select * from reciept")
Prods=cur.fetchall()

Label(root2,text="Product code",font="arial 11 ").place(x=50,y=150)
Label(root2,text="Product Name",font="arial 11 ").place(x=155,y=150)
Label(root2,text="Quantity",font="arial 11 ").place(x=270,y=150)
Label(root2,text="Total Price",font="arial 11 ").place(x=350,y=150)

for x in Prods:
    Label(root2,text=x[0],width=12,relief=GROOVE).place(x=60,y=i)
    Label(root2,text=x[1],width=12,relief=GROOVE).place(x=165,y=i)
    Label(root2,text=x[2],width=7,relief=GROOVE).place(x=278,y=i)
    i=i+20

for x in range(0,len(total)):
    Label(root2,text=total[x],width=12,relief=GROOVE).place(x=355,y=j)
    j=j+20
```

```
        Label(root2,text=Gt,width=12,relief=GROOVE).place(x=355,y=440)
        Label(root2,text="Grand Total",width=10,font="arial 11").place(x=270,y=440)

        Button(root2,text="Confirm purchase",command=Cpurchase).place(x=300,y=470)
        Button(root2,text="Go Back",command=Goback).place(x=420,y=470)

def customer():
    global root
    global root1
    global img
    global img2

    root.destroy()

    root1=Tk()
    root1.geometry("500x500+70+100")
    root1.title("Welcome! Customer")
    root1.iconbitmap("ICON.ico")

    img = PhotoImage(file="Background.png")
    img2= PhotoImage(file="LOGO.png")
    Label(root1,image=img).place(x=0,y=0)
    Label(root1,image=img2).place(x=60,y=0)
    Label(root1,text="©2022",font="arial 7 ").place(x=60,y=113)

    Label(root1,text="WHAT DO YOU WANT TO DO?",font="arial 14 bold").place(x=110,y=170)
```

```
    Label(root1,text="First lets Add items to cart ?",font="arial 8 bold").place(x=160,y=200)


    Button(root1,text="Add To Cart From Product List",command=insertscr).place(x=15,y=260)

    Button(root1,text="Delete From Cart",command=deletescr).place(x=370,y=260)

    Button(root1,text="Update Field Of Existing Product",command=updatescr).place(x=15,y=300)

    Button(root1,text="Show Cart",command=showscr).place(x=370,y=300)

    Button(root1,text="Proceed for billing",command=billing).place(x=200,y=370)

    Button(root1,text="Go Back",command=back).place(x=420,y=470)


################################     ADMIN STARTS HERE     ###################################

"""

The admin section deals with all the manipulation and checking of stocks and sales... The default username is set to "Admin007" and

default password is set to "0075RXT"... However you cannot change the password or username from the program as the

company (Kirana Kart here) distributes the default passwords and username to the amdins and it can never be changed..

keeping in mind the work flow of admin section the option to change password and username is not provided by us in the program...

"""

### basic functions for admin ###


def ainsert():

    global v1

    global v2

    global v3

    global v4


    cd=v1.get()

    nm=v2.get()
```

```
    qty=v3.get()
    pr=v4.get()
    cur.execute("insert into stock values (%s,%s,%s,%s)",(cd,nm,qty,pr))
    db.commit()
    messagebox.showinfo("Kirana Kart ","Succesful!")

def aupdate():
    global v1
    global v2
    global v3
    global v4

    cd=v1.get()
    nm=v2.get()
    qty=v3.get()
    pr=v4.get()
    sql1="update stock set Pname=%s,quantity=%s,price=%s where Pcode=%s"
    val=(nm,qty,pr,cd)
    cur.execute(sql1,val)
    db.commit()
    messagebox.showinfo("Kirana Kart","Stocks updated successfully")

def aclear():
    global v1
    global v2
    global v3
    global v4
```

```
    v1.set('')
    v2.set('')
    v3.set('')
    v4.set('')

def goback():
    global root2
    global P1
    global P2
    global P3
    global P4
    global img
    global img2

    root2.destroy()

    root2=Tk()
    root2.title("Welcome Admin!")
    root2.geometry("500x500+70+100")
    root2.iconbitmap("ICON.ico")

    img = PhotoImage(file="Background.png",master=root2)
    img2= PhotoImage(file="LOGO.png",master=root2)
    Label(root2,image=img).place(x=0,y=0)
    Label(root2,image=img2).place(x=60,y=0)
    Label(root2,text="©2022",font="arial 7 ").place(x=60,y=113)

    P1= PhotoImage(file="Manage.png",master=root2)
```

```
    P2= PhotoImage(file="Check.png",master=root2)
    P3= PhotoImage(file="Logout.png",master=root2)
    P4= PhotoImage(file="Sales.png",master=root2)

    Button(root2,text="Update Stock",command=SUpdate,image=P1).place(x=60,y=150)
    Button(root2,text="Check Stock",command=Sshow,image=P2).place(x=315,y=150)
    Button(root2,text="Logout",command=logout,image=P3).place(x=420,y=400)
    Button(root2,text="Sales Check",command=Salecheck,image=P4).place(x=190,y=300)

    Label(root2,text="Manage Stock",font="arial 14 bold").place(x=50,y=266)
    Label(root2,text="Check Stock",font="arial 14 bold").place(x=305,y=266)
    Label(root2,text="Logout",font="arial 14 bold").place(x=415,y=461)
    Label(root2,text="Total Sales Check",font="arial 14 bold").place(x=160,y=430)

def login():
    global v1
    global v2
    global img
    global img2
    global P1
    global P2
    global P3
    global P4
    global root1
    global root2

    cur.execute("select * from user")
    rec=cur.fetchall()
```

```
UN= v1.get()
PS= v2.get()
x=[UN,PS]
i=tuple(x)

if i in rec:

    root1.destroy()

    root2=Tk()
    root2.title("Welcome Admin!")
    root2.geometry("500x500+70+100")
    root2.iconbitmap("ICON.ico")

    img = PhotoImage(file="Background.png",master=root2)
    img2= PhotoImage(file="LOGO.png",master=root2)
    Label(root2,image=img).place(x=0,y=0)
    Label(root2,image=img2).place(x=60,y=0)
    Label(root2,text="©2022",font="arial 7 ").place(x=60,y=113)

    P1= PhotoImage(file="Manage.png",master=root2)
    P2= PhotoImage(file="Check.png",master=root2)
    P3= PhotoImage(file="Logout.png",master=root2)
    P4= PhotoImage(file="Sales.png",master=root2)

    Button(root2,text="Update Stock",command=SUpdate,image=P1).place(x=60,y=150)
    Button(root2,text="Check Stock",command=Sshow,image=P2).place(x=315,y=150)
```

```
        Button(root2,text="Logout",command=logout,image=P3).place(x=420,y=400)
        Button(root2,text="Sales Check",command=Salecheck,image=P4).place(x=190,y=300)

        Label(root2,text="Manage Stock",font="arial 14 bold").place(x=50,y=266)
        Label(root2,text="Check Stock",font="arial 14 bold").place(x=310,y=266)
        Label(root2,text="Logout",font="arial 14 bold").place(x=415,y=461)
        Label(root2,text="Total Sales Check",font="arial 14 bold").place(x=160,y=430)

    else:
        messagebox.showinfo("Kirana Kart","Invalid Credentials! Please try again")


def Salecheck():
    global root2
    global img
    global img2

    root2.destroy()

    cur.execute("select * from totalsales")
    rec=cur.fetchall()
    i=200

    cur.execute("select SUM(Amount) from totalsales")
    total=cur.fetchall()


    root2=Tk()
```

```
    root2.geometry("500x500+70+100")
    root2.title("Current Stock")
    root2.iconbitmap("ICON.ico")

    img = PhotoImage(file="Background.png",master=root2)
    img2= PhotoImage(file="LOGO.png",master=root2)

    Label(root2,image=img).place(x=0,y=0)
    Label(root2,image=img2).place(x=60,y=0)
    Label(root2,text="©2022",font="arial 7 ").place(x=60,y=113)

    Label(root2,text="Customer name",font="arial 12 ").place(x=50,y=150)
    Label(root2,text="Purchase Amount",font="arial 12 ").place(x=190,y=150)

    Button(root2,text="Go Back",command=goback).place(x=420,y=470)

    for x in rec:
        Label(root2,text=x[0],width=16,relief=GROOVE).place(x=60,y=i)
        Label(root2,text=x[1],width=16,relief=GROOVE).place(x=200,y=i)
        i=i+20

    TS="Total sales till now in INR. "+str(total[0])
    Label(root2,text=TS,font="arial 12 ").place(x=60,y=450)

def logout():
    global root2
    global root1
    global img
```

```
global img2
global v1
global v2

root2.destroy()

root1=Tk()
root1.geometry("500x500+70+100")
root1.title("Kirana Kart")
root1.iconbitmap("ICON.ico")

img = PhotoImage(file="Background.png",master=root1)
img2= PhotoImage(file="LOGO.png",master=root1)
Label(root1,image=img).place(x=0,y=0)
Label(root1,image=img2).place(x=60,y=0)
Label(root1,text="©2022",font="arial 7 ").place(x=60,y=113)

Label(root1,text="Please Enter Username And password to Gain access!",font="arial 12 bold").place(x=35,y=150)

Label(root1,text="USER NAME",font="arial 14 bold").place(x=50,y=200)
Label(root1,text="PASSWORD",font="arial 14 bold").place(x=50,y=250)

v1=StringVar(root1)
v2=StringVar(root1)

e1=Entry(root1,textvariable=v1).place(x=200,y=205)
e2=Entry(root1,textvariable=v2).place(x=200,y=255)
```

```
    Button(root1,text="LOGIN",command=login).place(x=225,y=350)
    Button(root1,text="Go Back",command=back).place(x=420,y=470)

def Sshow():
    global root2
    global img
    global img2

    root2.destroy()

    i=200
    cur.execute("select * from stock")
    rec=cur.fetchall()

    root2=Tk()
    root2.geometry("500x500+70+100")
    root2.title("Current Stock")
    root2.iconbitmap("ICON.ico")

    img = PhotoImage(file="Background.png",master=root2)
    img2= PhotoImage(file="LOGO.png",master=root2)
    Label(root2,image=img).place(x=0,y=0)
    Label(root2,image=img2).place(x=60,y=0)
    Label(root2,text="©2022",font="arial 7 ").place(x=60,y=113)

    Label(root2,text="Product code",font="arial 11 ").place(x=50,y=150)
    Label(root2,text="Product Name",font="arial 11 ").place(x=155,y=150)
    Label(root2,text="Quantity",font="arial 11 ").place(x=270,y=150)
```

```
    Label(root2,text="Product Price",font="arial 11 ").place(x=345,y=150)

    for x in rec:
        Label(root2,text=x[0],width=12,relief=GROOVE).place(x=60,y=i)
        Label(root2,text=x[1],width=12,relief=GROOVE).place(x=165,y=i)
        Label(root2,text=x[2],width=7,relief=GROOVE).place(x=278,y=i)
        Label(root2,text=x[3],width=12,relief=GROOVE).place(x=355,y=i)
        i=i+20

    Button(root2,text="Go Back",command=goback).place(x=420,y=470)

def SUpdate():
    global root3
    global root2
    global v1
    global v2
    global v3
    global v4
    global img
    global img2
    global imag
    global imag2

    root2.destroy()

    root2=Tk()
    root2.geometry("500x500+70+100")
    root2.title("Kirana Kart")
```

```
root2.iconbitmap("ICON.ico")


img = PhotoImage(file="Background.png",master=root2)
img2= PhotoImage(file="LOGO.png",master=root2)
L1=Label(root2,image=img)
L1.place(x=0,y=0)
L2=Label(root2,image=img2)
L2.place(x=60,y=0)


Label(root2,text="©2022",font="arial 7 ").place(x=60,y=113)


v1=StringVar(root2)
v2=StringVar(root2)
v3=StringVar(root2)
v4=StringVar(root2)


Label(root2,text="Stock management",font="arial 14 bold").place(x=170,y=150)
Label(root2,text="Product Code",font="arial 12 bold").place(x=50,y=250)
Label(root2,text="Product Name",font="arial 12 bold").place(x=50,y=300)
Label(root2,text="Quantity",font="arial 12 bold").place(x=50,y=350)
Label(root2,text="Price",font="arial 12 bold").place(x=50,y=400)


e1=Entry(root2,textvariable=v1).place(x=200,y=250)
e2=Entry(root2,textvariable=v2).place(x=200,y=300)
e3=Entry(root2,textvariable=v3).place(x=200,y=350)
e4=Entry(root2,textvariable=v4).place(x=200,y=400)
```

```
    Button(root2,text="Search",command=search).place(x=350,y=250)
    Button(root2,text="Add",command=ainsert).place(x=220,y=440)
    Button(root2,text="Update",command=aupdate).place(x=300,y=440)
    Button(root2,text="Clear",command=aclear).place(x=140,y=440)
    Button(root2,text="Go Back",command=goback).place(x=420,y=470)

def admin():
    global root
    global root1
    global img
    global img2
    global v1
    global v2

    root.destroy()

    root1=Tk()
    root1.geometry("500x500+70+100")
    root1.title("Kirana Kart")
    root1.iconbitmap("ICON.ico")

    img = PhotoImage(file="Background.png",master=root1)
    img2= PhotoImage(file="LOGO.png",master=root1)
    Label(root1,image=img).place(x=0,y=0)
    Label(root1,image=img2).place(x=60,y=0)

    Label(root1,text="Please Enter Username And password to Gain access!",font="arial 12 bold").place(x=35,y=150)
    Label(root1,text="©2022",font="arial 7 ").place(x=60,y=113)
```

```
    Label(root1,text="USER NAME",font="arial 14 bold").place(x=50,y=200)

    Label(root1,text="PASSWORD",font="arial 14 bold").place(x=50,y=250)


    v1=StringVar(root1)

    v2=StringVar(root1)


    e1=Entry(root1,textvariable=v1).place(x=200,y=205)

    e2=Entry(root1,textvariable=v2,show="*").place(x=200,y=255)


    Button(root1,text="LOGIN",command=login).place(x=225,y=350)

    Button(root1,text="Go Back",command=back).place(x=420,y=470)

############################        MAIN PROGRAM STARTS HERE        ##########################


"""
```

The main program start running from here, we have used a pre-selected logo for our application and it can be seen in the GUI itself

as well as it can also be seen in the code where "PhotoImage" function of Tkinter has been used by us...

Have a look!!

```
"""

root=Tk()

root.geometry("500x500+70+100")

root.title("Kirana Kart")

root.iconbitmap("ICON.ico")


#creating the background image
```

```
img = PhotoImage(file="Background.png",master=root)
img2= PhotoImage(file="LOGO.png",master=root)
Label(root,image=img).place(x=0,y=0)
Label(root,image=img2).place(x=60,y=0)

Label(root,text="You need it , We got it ",font="arial 14 bold").place(x=150,y=140)
Label(root,text="How do you wish to continue?",font="arial 14 bold").place(x=120,y=180)
Label(root,text="©2022",font="arial 7 ").place(x=60,y=113)

P1= PhotoImage(file="Admin.png",master=root)
P2= PhotoImage(file="customer.png",master=root)

Button(root,text="ADMIN",command=admin, image= P1).place(x=90,y=230)

Label(root,text="Admin",font="arial 14 bold").place(x=110,y=350)

Button(root,text="CUSTOMER",command=customer,image= P2).place(x=300,y=230)
Label(root,text="Customer",font="arial 14 bold").place(x=310,y=350)

Button(root,text="EXIT",command=exit).place(x=420,y=470)

root.mainloop()
```

Chapter 4

OUTPUT RESULTS

4.1 Admin portal

By choosing the admin panel, the management has to login with the given id and password

They will be directed to the management portal with the given options

They can manage(add or update)their stock

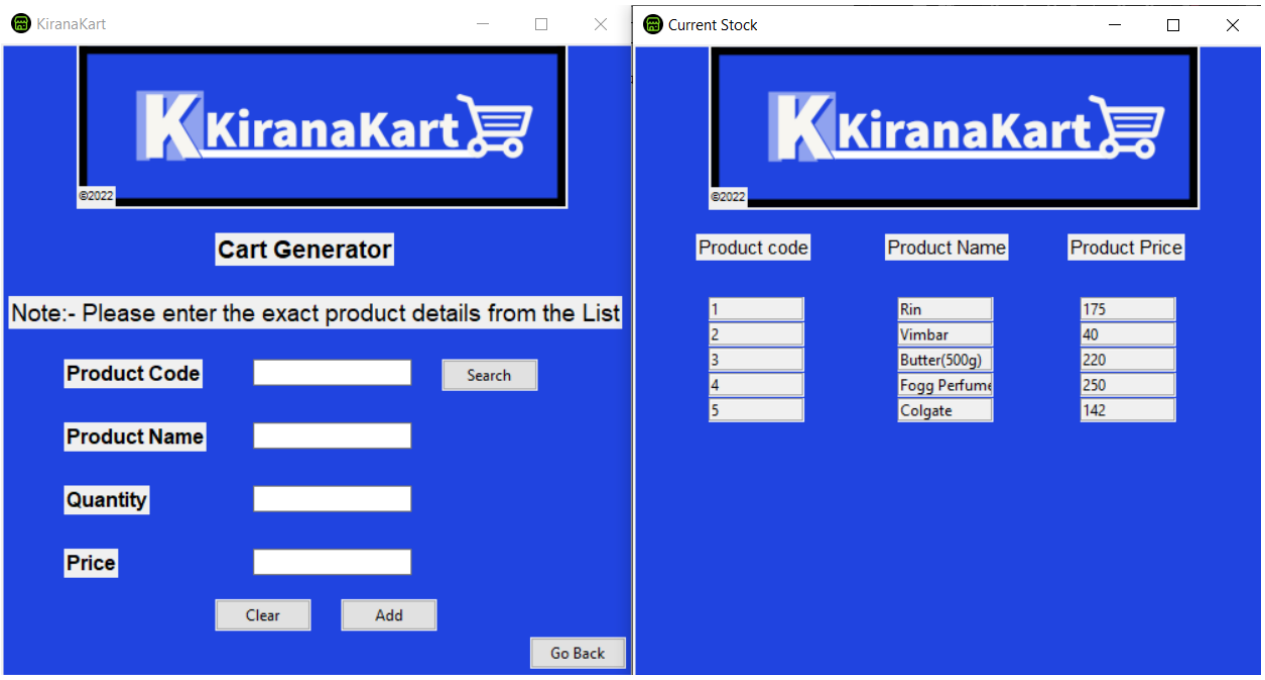
Check their inventory/stock

Or check their total sales till date

4.2 Customer portal

The user can choose what they want to do,

They can add items



View their cart before checkout or edit their cart

They can proceed to billing and choosing the method of payment

Chapter 5

CONCLUSION

5.1CONCLUSION

While making of the project on "Kirana Kart" we made our progress by solving a number of problems. Solution to each problem by ourselves was the most important part of the project and this provided us with experiences which will help us in future.

The first module that we thought to use and used successfully in our project is the "tkinter" module which helps in developing the graphical user interface in programs. We not only used the simple window and button widgets but also included some advanced functions such as "PhotoImage" and "master" etc. for solving various errors which occurred during the making of this program and to enhance the look and feel of our application and finally we got our program functioning desirably.

Another module that we have used is the mysql-connector which provides the interconnectivity between python and mysql database and it helped us in storing and retrieving the user/admin data in the database inside tables.

By working on this project we got to know that there are still many more things to learn about python.

Some important things that we learnt includes scheming a good program architecture and converting real life situations into an efficient code, and how to write a good looking, easily readable and comprehensible as well as time and memory efficient code.

5.2 FUTURE SCOPE

Every project whether large or small has some limitations no matter however diligently developed. In some cases limitations is small while in other cases they may be broad also. The new system has got some limitations. Major areas where modifications can be done are as follows:

- personalized recommendations, special deals and promotions,
- The security is limited so some additional arrangement could be made to provide more security to the system.
- There is no provision of complain handling so further it can be added
- And a built-in rewards program.

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