**Computer Science**

**Investigatory**

**Project**

**Grocery Management System**

**CODE**

import pickle

def custmenu():

while True:

print('------------------------------------------------------')

print(' ~CUSTOMER MENU~')

print('------------------------------------------------------')

print("Press 1 to sign up.")

print("Press 2 to log in.")

print("Press 3 to view deals")

print("Press 4 to check the price of a product")

print("Press 5 to exit")

print('------------------------------------------------------')

cho=int(input("Enter your choice here:"))

print('------------------------------------------------------')

if cho==1:

custsignup()

elif cho==2:

custlogin()

elif cho==3:

deals()

elif cho==4:

prodprice()

elif cho==5:

break

else:

print("\*Invalid input\*")

custmenu()

def empmenu():

while True:

print('------------------------------------------------------')

print(' ~EMPLOYEE MENU~')

print('------------------------------------------------------')

print("Press 1 log in")

print("Press 2 to view all products")

print("Press 3 to check product status")

print("Press 4 to check the price of a product")

print("Press 5 to view product details")

print("Press 6 to restock a product")

print("Press 7 to exit")

print('------------------------------------------------------')

cho=int(input("Enter your choice here:"))

print('------------------------------------------------------')

if cho==1:

empdet()

elif cho==2:

dispprod()

elif cho==3:

prodstat()

elif cho==4:

prodprice()

elif cho==5:

proddet()

elif cho==6:

prodstock()

elif cho==7:

break

else:

print("\*Input invalid\*")

empmenu()

def bossmenu():

while True:

print('------------------------------------------------------')

print(' ~BOSS MENU~')

print('------------------------------------------------------')

print("Press 1 to view deals")

print("Press 2 to add a new employee")

print("Press 3 to display records of all employees")

print("Press 4 to display records of all customers")

print("Press 5 to display records of all products")

print("Press 6 to display salaries of all employees")

print("Press 7 to display details of an employee")

print("Press 8 to exit")

print('------------------------------------------------------')

cho=int(input("Enter your choice here:"))

print('------------------------------------------------------')

if cho==1:

deals()

elif cho==2:

newemp()

elif cho==3:

dispemp()

elif cho==4:

dispcust()

elif cho==5:

dispprod()

elif cho==6:

empsal()

elif cho==7:

empdet()

elif cho==8:

break

else:

print("\*Input invalid\*")

bossmenu()

def empdet():

f=open('emp.dat','rb')

ec=int(input('Enter your employee code: '))

ep=input('Enter your employee password: ')

print('------------------------------------------------------')

print( '~Your Details~')

print('------------------------------------------------------')

try:

while True:

rec=pickle.load(f)

if rec[0]==ec and rec[2]==ep:

print(rec)

break

except:

print("\*Wrong id or password\*")

f.close()

def newemp():

f=open('emp.dat','ab')

print('------------------------------------------------------')

print(' Entry of new employee')

print('------------------------------------------------------')

rec=[]

ecode=int(input("Enter the employee code: "))

ename=input("Enter the employee name: ")

epass=input("Enter the employee password: ")

esal=int(input("Enter the employee salary: "))

bonus=float(input("How much bonus you wish to add: "))

rec=[ecode,ename,epass,esal,bonus]

pickle.dump(rec,f)

print('------------------------------------------------------')

print(' ~Data entered~')

f.close()

def dispemp():

f=open('emp.dat' ,'rb')

print('------------------------------------------------------')

print(' ~EMPLOYEES DATA~')

print('------------------------------------------------------')

try:

while True:

rec=pickle.load(f)

print(rec)

except:

f.close()

def dispcust():

f=open('customer.dat' ,'rb')

print('------------------------------------------------------')

print(' ~CUSTOMER DATA~')

print('------------------------------------------------------')

try:

while True:

rec=pickle.load(f)

print(rec)

except:

f.close()

def dispprod():

import pickle

f=open('product.dat' ,'rb')

print('------------------------------------------------------')

print(' ~ALL PRODUCTS~')

print('------------------------------------------------------')

try:

while True:

rec=pickle.load(f)

print(rec)

except:

f.close()

def empsal():

f=open('emp.dat' ,'rb')

print('------------------------------------------------------')

print(' ~EMPLOYEE SALARY~')

print('------------------------------------------------------')

try:

while True:

rec=pickle.load(f)

print(rec[0],',',rec[1],',',rec[3])

except:

f.close()

def custsignup():

f=open('customer.dat','ab')

print('------------------------------------------------------')

print(" ~~~SIGN UP IN PROCESS~~~")

print('------------------------------------------------------')

rec=[]

cname=input("Customer name: ")

cno=int(input("Customer phone number: "))

cid=input("Customer id: ")

city=input('Customer city name: ')

points=int(input('Enter the points gained: '))

rec=[cname,cno,cid,city,points]

pickle.dump(rec,f)

print('~Account created~')

f.close()

def custlogin():

f=open('customer.dat','rb')

print('------------------------------------------------------')

print(' LOGIN PROCESS')

print('------------------------------------------------------')

cc=input('Enter your customer id: ')

cn=int(input('Enter your phone number: '))

print('------------------------------------------------------')

print(' ~Your Details~')

print('------------------------------------------------------')

try:

while True:

rec=pickle.load(f)

if rec[2]==cc and rec[1]==cn:

print(rec)

break

except:

print("\*Wrong id or phone number\*")

f.close()

def deals():

print(' ~DEALS~')

print('~Get 20% off on personal care products on points upto 500~')

print('~Get 10% off all products using xyz credit/debit card~')

print('~Get upto 500/- on purchase above 2000/-~')

print('~Get 30% off on purchase above 5000/-~')

print('~Use code DIWALI2022 and get upto 20% off on decorative items~')

print('~For festiv offers, contact your nearest store~')

def prodprice():

f=open('product.dat' ,'rb')

pc=int(input('Enter product code to check the price:'))

print('------------------------------------------------------')

print(' ~Product Details~')

print('------------------------------------------------------')

try:

while True:

rec=pickle.load(f)

if rec[1]==pc:

print(rec[1],',',rec[0],',',rec[4])

break

except:

print('\*Invalid Product Code\*')

f.close()

def prodstat():

f=open('product.dat' ,'rb')

print('------------------------------------------------------')

print(' ~Product Status~')

print('------------------------------------------------------')

try:

while True:

rec=pickle.load(f)

print(rec[1],',',rec[0],',',rec[2])

except:

f.close()

def proddet():

f=open('product.dat' ,'rb')

print('------------------------------------------------------')

print(' ~Product Detail~')

print('------------------------------------------------------')

pc=int(input("Enter product code to check it's details: "))

try:

while True:

rec=pickle.load(f)

if rec[1]==pc:

print(rec)

break

except:

print("\*Invalid Product Code\*")

def prodstock():

f=open('product.dat' ,'rb')

pc=int(input("Enter product code to restock: "))

print('------------------------------------------------------')

print(' ~Product Restock In Process~')

print('------------------------------------------------------')

try:

while True:

rec=pickle.load(f)

if rec[1]==pc:

if rec[2]=='IN STOCK':

print('Product already in stock')

elif rec[2]=='OUT OF STOCK':

print('Product: ',rec[1],':',rec[0],':','Order sent for restocking')

break

except:

print("\*Invalid Product Code\*")

f.close()

def mainmenu():

while True:

print('------------------------------------------------------')

print("Hello! Choose your method of interaction:")

print('------------------------------------------------------')

print(' ~MAIN MENU~')

print('------------------------------------------------------')

print("Press 1 for Customer access.")

print("Press 2 for Employee access.")

print("Press 3 for Boss access.")

print("Press 4 to exit the system.")

print('------------------------------------------------------')

cho=int(input("Enter your choice here:"))

print('------------------------------------------------------')

if cho==1:

custmenu()

elif cho==2:

pswd=int(input("Please enter the employee password:"))

if pswd==123:

empmenu()

else:

print('------------------------------------------------------')

print("\*Incorrect password\*")

mainmenu()

elif cho==3:

pswd=int(input("Please enter the boss password:"))

if pswd==456:

bossmenu()

else:

print('------------------------------------------------------')

print("\*Incorrect password\*")

mainmenu()

elif cho==4:

print(' HAVE A NICE DAY!! :)')

flag=1

break

else:

print('------------------------------------------------------')

print("\*Invalid input\*")

mainmenu()

flag=0

if flag==0:

mainmenu()

**OUTPUT**





















