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  #online home rental
import random
import datetime

# Global List Declaration
name = []
phno = []
add = []
checkin = []
checkout = []
room = []
price = []
roomno = []
custid = []
day = []

# Global Variable Declaration

i = 0

# Home Function
def Home():

    print("\t\t\t\t\t\t WELCOME TO ONLINE HOME RENTAL\n")
    print("\t\t\t 1 Booking\n")
    print("\t\t\t 2 Rooms Info\n")
    print("\t\t\t 3 location\n")
    print("\t\t\t 4 Payment\n")
    print("\t\t\t 5 Record\n")
    print("\t\t\t 0 Exit\n")

    ch=int(input("->"))

    if ch == 1:
        print(" ")
        Booking()

    elif ch == 2:
        print(" ")
        Rooms_Info()

    elif ch == 3:
        print(" ")
        location()

    elif ch == 4:
        print(" ")
        Payment()
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    elif ch == 5:
        print(" ")
        Record()

    else:
        exit()



# Booking function
def Booking():

        # used global keyword to
        # use global variable 'i'
        global i
        print(" BOOKING ROOMS")
        print(" ")

        while 1:
            n = str(input("Name: "))
            p1 = str(input("Phone No.: "))
            a = str(input("Address: "))

            # checks if any field is not empty
            if n!="" and p1!="" and a!="":
                name.append(n)
                add.append(a)
                break

            else:
                 print("\tName, Phone no. & Address cannot be empty..!!")

        cii=str(input("Check-In: "))
        checkin.append(cii)
        cii=cii.split('/')
        ci=cii
        ci[0]=int(ci[0])
        ci[1]=int(ci[1])
        ci[2]=int(ci[2])
        date(ci)

        coo=str(input("Check-Out: "))
        checkout.append(coo)
        coo=coo.split('/')
        co=coo
        co[0]=int(co[0])
        co[1]=int(co[1])
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co[2]=int(co[2])

# checks if check-out date falls after
# check-in date
if co[1]<ci[1] and co[2]<ci[2]:

    print("\n\tErr..!!\n\tCheck-Out date must fall after Check-In\n")
    name.pop(i)
    add.pop(i)
    checkin.pop(i)
    checkout.pop(i)
    Booking()
elif co[1]==ci[1] and co[2]>=ci[2] and co[0]<=ci[0]:

    print("\n\tErr..!!\n\tCheck-Out date must fall after Check-In\n")
    name.pop(i)
    add.pop(i)
    checkin.pop(i)
    checkout.pop(i)
    Booking()
else:
    pass

date(co)
d1 = datetime.datetime(ci[2],ci[1],ci[0])
d2 = datetime.datetime(co[2],co[1],co[0])
d = (d2-d1).days
day.append(d)

print("----SELECT ROOM TYPE----")
print(" 1. 1 BHK ")
print(" 2. 2 BHK ")
print(" 3. 3BHK ")
print(" 4. 4BHK ")
print(("\t\tPress 0 for Room Prices"))

ch=int(input("->"))

# if-conditions to display alloted room
# type and it's price
if ch==0:
    print(" 1. 1 BHK - Rs. 3500")
    print(" 2. 2 BHK - Rs. 4000")
    print(" 3. 3 BHK - Rs. 5500")
    print(" 4. 4 BHK - Rs. 7000")
    ch=int(input("->"))
if ch==1:
    room.append('1 BHK')
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    print("Room Type- 1 BHK")
    price.append(3500)
    print("Price- 3500")
elif ch==2:
    room.append('2 BHK')
    print("Room Type- 2 BHK")
    price.append(4000)
    print("Price- 4000")
elif ch==3:
    room.append('3 BHK')
    print("Room Type- 3 BHK")
    price.append(5500)
    print("Price- 5500")
elif ch==4:
    room.append('4 BHK')
    print("Room Type- 4 BHK")
    price.append(7000)
    print("Price- 7000")
else:
    print(" Wrong choice..!!")


# randomly generating room no. and customer
# id for customer
rn = random.randrange(40)+300
cid = random.randrange(40)+10


# checks if alloted room no. & customer
# id already not alloted
while rn in roomno or cid in custid:
    rn = random.randrange(60)+300
    cid = random.randrange(60)+10

rc.append(0)
p.append(0)

if p1 not in phno:
    phno.append(p1)
elif p1 in phno:
    for n in range(0,i):
        if p1== phno[n]:
            if p[n]==1:
                phno.append(p1)
elif p1 in phno:
    for n in range(0,i):
        if p1== phno[n]:
            if p[n]==0:
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                print("\tPhone no. already exists and payment yet not done..!!")
                name.pop(i)
                add.pop(i)
                checkin.pop(i)
                checkout.pop(i)
                Booking()
        print("")
        print("\t\t\t***ROOM BOOKED SUCCESSFULLY***\n")
        print("Room No. - ",rn)
        print("Customer Id - ",cid)
        roomno.append(rn)
        custid.append(cid)
        i=i+1
        n=int(input("0-BACK\n ->"))
        if n==0:
            Home()
        else:
            exit()

# ROOMS INFO
def Rooms_Info():
    print("         ------ ROOMS INFO ------")
    print("")
    print("1 BHK")
    print("---------------------------------------------------------------")
    print("Room amenities include: 1 Double Bed, Television, Telephone,")
    print("Double-Door Cupboard, 1 Coffee table with 2 sofa, Balcony and")
    print("an attached washroom with hot/cold water.\n")
    print("2 BHK")
    print("---------------------------------------------------------------")
    print("Room amenities include: 2 Double Bed, Television, Telephone,")
    print("Double-Door Cupboard, 1 Coffee table with 2 sofa, Balcony and")
    print("an attached washroom with hot/cold water + Window/Split AC.\n")
    print("3 BHK")
    print("---------------------------------------------------------------")
    print("Room amenities include: 3 Double Bed + 1 Single Bed, Television,")
    print("Telephone, a Triple-Door Cupboard, 1 Coffee table with 2 sofa, 1")
    print("Side table, Balcony with an Accent table with 2 Chair and an")
    print("attached washroom with hot/cold water.\n")
    print("4 BHK")
    print("---------------------------------------------------------------")
    print("Room amenities include: 4 Double Bed + 1 Single Bed, Television,")
    print("Telephone, a Triple-Door Cupboard, 1 Coffee table with 2 sofa, ")
    print("1 Side table, Balcony with an Accent table with 2 Chair and an")
    print("attached washroom with hot/cold water + Window/Split AC.\n\n")
    print()
    n=int(input("0-BACK\n ->"))
    if n==0:
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        Home()
    else:
        exit()


# PAYMENT FUNCTION
def Payment():

    ph=str(input("Phone Number: "))
    global i
    f=0

    for n in range(0,i):
        if ph==phno[n] :

            # checks if payment is
            # not already done
             if p[n]==0:
                f=1
                print(" Payment")
                print(" --------------------------------")
                print("  MODE OF PAYMENT")

                print("  1- Credit/Debit Card")
                print("  2- Paytm/PhonePe")
                print("  3- Using UPI")
                print("  4- Cash")
                x=int(input("-> "))
                print("\n  Amount: ",(price[n]*day[n])+rc[n])
                print("\n            Pay For AnCasa")
                print("  (y/n)")
                ch=str(input("->"))

                if ch=='y' or ch=='Y':
                    print("\n\n --------------------------------")
                    print("           Home AnCasa")
                    print(" --------------------------------")
                    print("              Bill")
                    print(" --------------------------------")
                    print(" Name: ",name[n],"\t\n Phone No.: ",phno[n],"\t\n Address: ",add[n],"\t")
                    print("\n Check-In: ",checkin[n],"\t\n Check-Out: ",checkout[n],"\t")
                    print("\n Room Type: ",room[n],"\t\n Room Charges: ",price[n]*day[n],"\t")

                    print(" --------------------------------")
                    print("\n Total Amount: ",(price[n]*day[n])+rc[n],"\t")
                    print(" --------------------------------")
                    print("          Thank You")
                    print("          Visit Again :)")
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                print(" --------------------------------\n")
                p.pop(n)
                p.insert(n,1)

                # pops room no. and customer id from list and
                # later assigns zero at same position
                roomno.pop(n)
                custid.pop(n)
                roomno.insert(n,0)
                custid.insert(n,0)

            else:

              for j in range(n+1,i):
                if ph==phno[j] :
                  if p[j]==0:
                    pass

                  else:
                    f=1
                    print("\n\tPayment has been Made :)\n\n")
    if f==0:
        print("Invalid Customer Id")

    n = int(input("0-BACK\n ->"))
    if n == 0:
        Home()
    else:
        exit()

# RECORD FUNCTION
def Record():

    # checks if any record exists or not
    if phno!=[]:
        print("       *** HOME RECORD ***\n")
        print("| Name        | Phone No.    | Address       | Check-In  | Check-Out     | Room Type
| Price      |")

print("----------------------------------------------------------------------------------------------------------
---")

        for n in range(0,i):
            print("|",name[n],"\t
|",phno[n],"\t|",add[n],"\t|",checkin[n],"\t|",checkout[n],"\t|",room[n],"\t|",price[n])
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print("-----------------------------------------------------------------------------------------------------------------------
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    else:
        print("No Records Found")
    n = int(input("0-BACK\n ->"))
    if n == 0:
        Home()

    else:
        exit()
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