# CYBER CAFE MANAGEMENT SYSTEM

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'''
Cyber Café management system aims at automating cyber café. The
users of the Cyber Café must register with CCMS.
The system must include provisions to keep user details and login history.
It should help the café owners to retrieve user details when needed and internet usage in the system.
It should be capable of allocating cabins automatically. It should help the cafe owner in calculating daily usage of the systems and income.
The users are allowed to use the Café and charged based on the duration of usage
"""
Allocate the system to the user based on the availability Generate the bill amount based on the duration of usage by the user Find the priority user of CCMS
Store the priority user of CCMS in a file.
'''

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#DATA STORAGE
admin_details = {
'1001' : {'name' : 'test' , 'password' : 'test'},
'1002' : {'name' : 'nitheesh','password' : '123'},
'1003' : {'name' : 'Ash','password' : 'bgt'},
}
customer_details = {
'2001' : {'name': 'test' ,
'password':'test','logins':4,'hours':6,'previous_bills':2500 },
'2002' : {'name': 'user1' ,
'password':'india','logins':2,'hours':2,'previous_bills':7500}, '2003' : {'name': 'user10023' ,
'password':'fijn','logins':7,'hours':4,'previous_bills':4000}, '2004' : {'name': 'nitheesh' ,
'password':'123','logins':8,'hours':6,'previous_bills':1500}, }
availability = {'A1':'In Use','A2':'Free','A3':'Free', 'B1':'In Use','B2':'In Use','B3':'In use',
'C1':'Free','C2':'Free','C3':'In Use',
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'D1':'Free','D2':'In Use','D3':'In use'
}
# LOGIN
def login():
	login1 = int(input("\n\n1 ... Admin\n2 ... User\n3 ... Exit\n>>> Enter a Key : "))
	while True:
		if login1 == 1:
			admin_login()
			break
		elif login1 == 2:
			customer_login()
			break
		elif login1 == 3:
			break
		else:
			print("Enter a valid key !\n\n")
			login
# ADMIN PART
def admin_login():
	global admin_details
	print("\n\n ..... ADMIN LOGIN ..... ")
	adminlogin = int(input("1 ... Sign In\n2 ... Sign Up\n3 ... Back\n4 ... Exit\n>>> Enter a
Key : "))
	while True:
		if adminlogin == 1:
			in_id = input("Enter the userid : ")
			in_pass = input("Enter the password : ")
			if admin_details[in_id]['password'] == in_pass and in_id in
admin_details.keys():
				admin()
			else:
				print("Enter a valid username or password")
			break
		elif adminlogin == 2:
			name1 = input("Enter Name : ")
			password1 = input("Enter password : ")
			detail = dict(name = name1,password = password1)
			id = str(len(admin_details) + 2001)
			admin_details[id] = detail
			print("!!! Updated Successfully !!!")
			admin_login()
			break
		elif adminlogin == 3:
			login()
			break
		elif adminlogin == 4:
			break
		else:
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                        print("Enter a Valid key !")
                        admin_login()
                        break
def admin():
        while True:
                control = int(input("1 ... Availability\n2 ... Priority User\n3 ... Bills\n4 ... User
Details\n5 ... Log Out\n\n>>> Enter a Key : "))
                if control == 1:
#for seat in availability.items():
                        for i,j in zip(availability.keys(),availability.values()): print(i,"\t",j)
                elif control == 2:
                        l = []
                        for item in customer_details.keys():
                                l.append(customer_details[item]['logins'])
                        l.sort(reverse=True)
                        priority_user = l[0]
                        for i in customer_details.keys():
                                if customer_details[i]['logins'] == priority_user:
                                        print("PRIORITY USER :" , customer_details[i])
                elif control == 3:
                        for item in customer_details.values():
                                print(item['name'],"\t\t--->",item['previous_bills'])
                elif control == 4:
                        for item in customer_details.keys():
                                print("Name
:",customer_details[item]['name'],"\t",customer_details[item]['logins']," 
\t",customer_details[item]['previous_bills'])
                elif control == 5:
                        print("Logged out Successfully !\n\n")
                        login()
                        break
                else:
                        print("Enter a valid key !")
                        admin()
                        break
# CUSTOMER PART
def customer_login():
        print("User")
        global customer_details
        print("\n\n ..... CUSTOMER LOGIN ..... ")
        customerlogin = int(input("1 ... Sign In\n2 ... Sign Up\n3 ... Back\n4 ... Exit\n>>> Enter
a Key : "))
        while True:
                if customerlogin == 1:
                        in_idc = input("Enter the userid : ")
                        in_pass = input("Enter the password : ")
                        if customer_details[in_idc]['password'] == in_pass and in_idc in
customer_details.keys():
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                        customer(in_idc)
                    else:
                        print("Enter a valid username or password")
                    break
                elif customerlogin == 2:
                    name1 = input("Enter Name : ")
                    password1 = input("Enter password : ")
                    detail = dict(name = name1,password = password1)
                    id = str(len(customer_details) + 2001)
                    customer_details[id] = detail
                    print("!!! Updated Successfully !!!")
                    customer_login()
                    break
                elif customerlogin == 3:
                    login()
                    break
                elif customerlogin == 4:
                    break
                else:
                    print("Enter a Valid key !")
                    customer_login()
                    break
def customer(in_idc):
    amt_per_hr = 7
    control = int(input("1 ... Allot a Cabin\n2 ... Generate my bill\n3 ... Previous bills\n4 ... Log
out\n>>> Enter a Key : "))
    while True:
        if control == 1:
            for seat in availability:
                if availability[seat] == 'Free':
                    print("You have been alloted with the cabin : " , seat)
                    customer(in_idc)
                    break
        elif control == 2:
            logs = customer_details[in_idc]['logins']
            hrs = customer_details[in_idc]['hours']
            bill = amt_per_hr * logs * hrs
            print("BILL AMOUNT DUE : Rs.",bill)
            customer(in_idc)
            break
        elif control == 3:
            prev = customer_details[in_idc]['previous_bills']
            print("PREVIOUS BILLS : Rs.",prev)
            customer(in_idc)
            break
        elif control == 4:
            login()
            break
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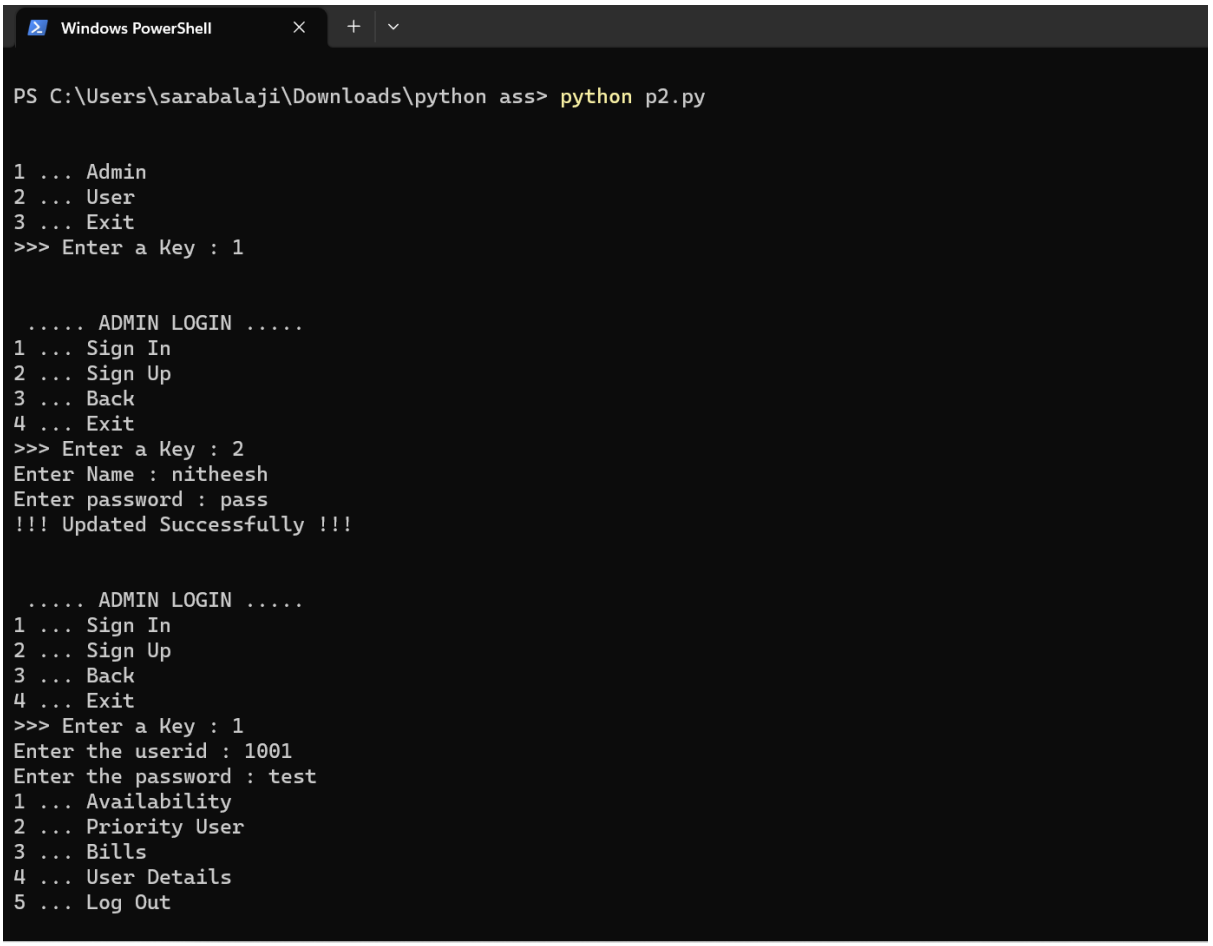
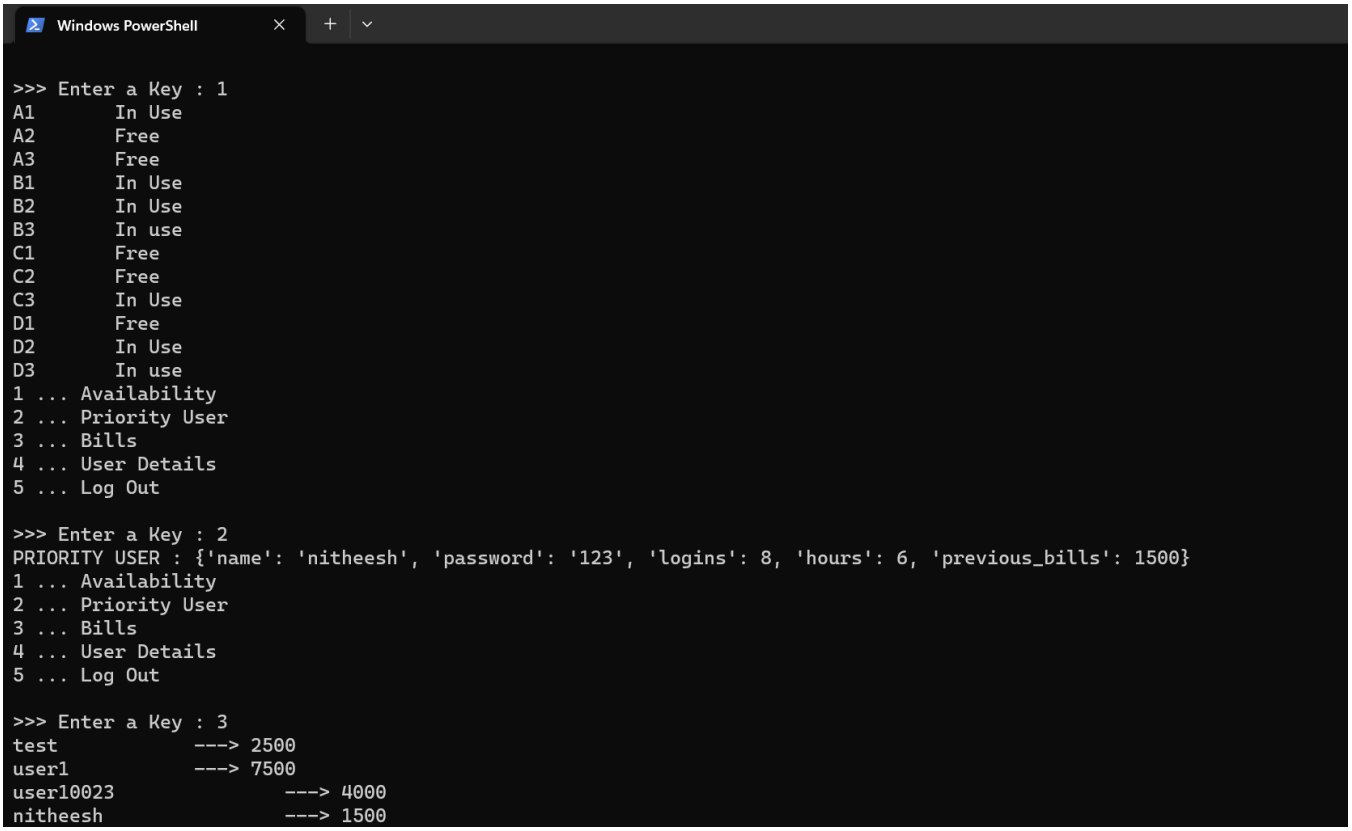
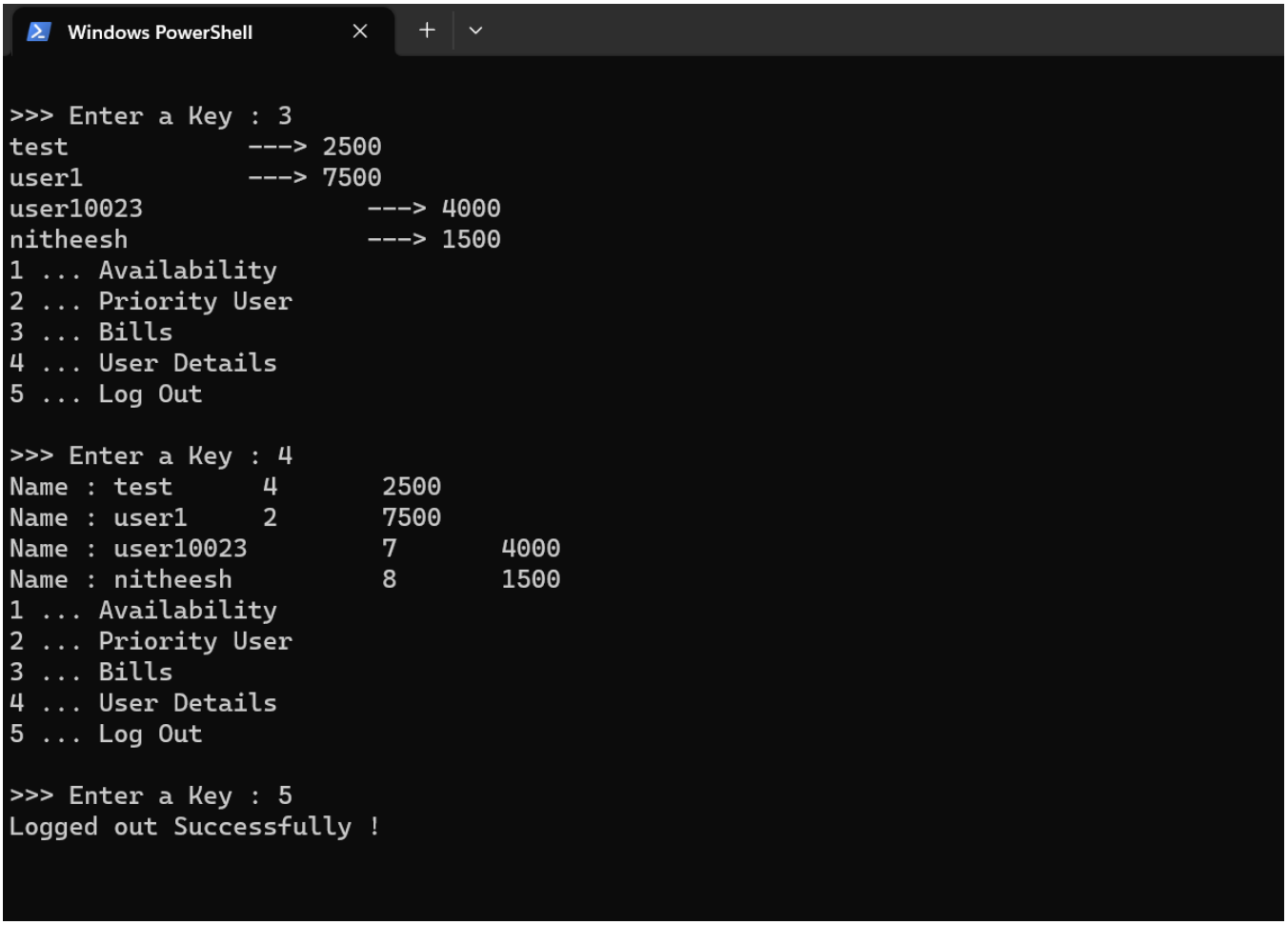
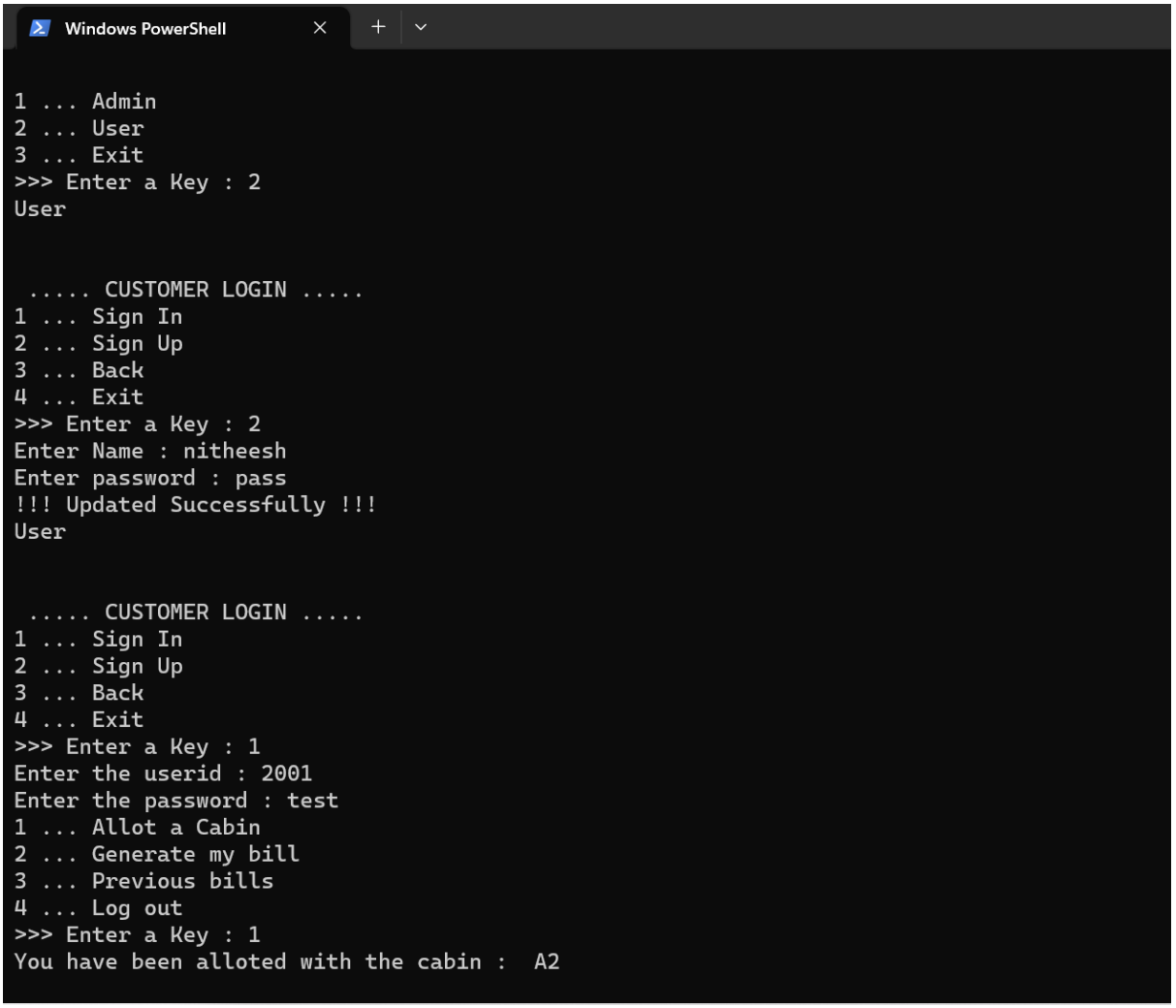
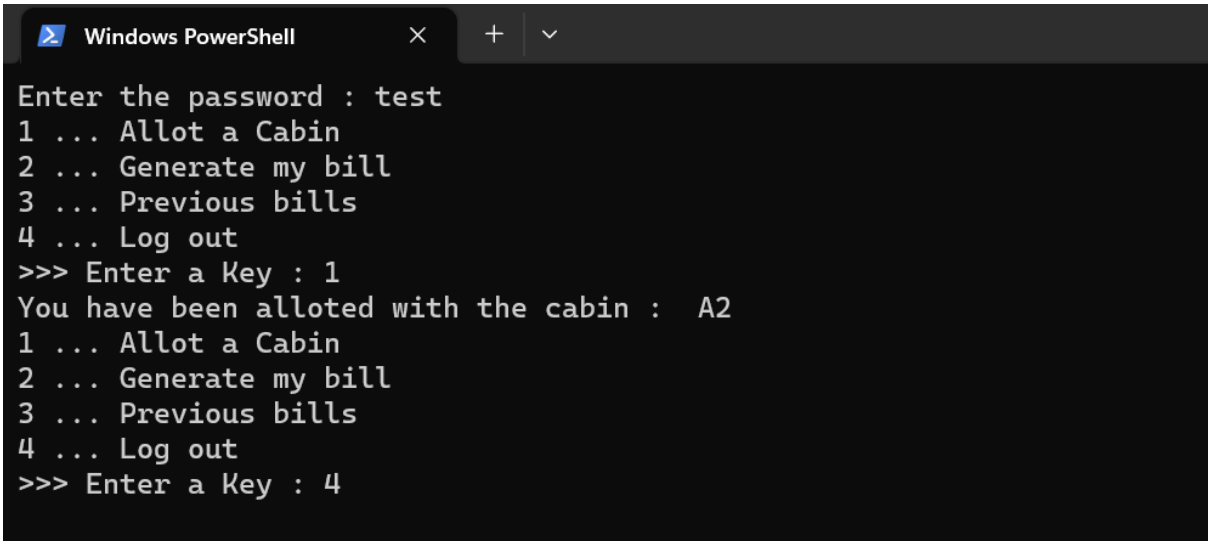
        elif control == 5:
            print("Logged out Successfully !")
            login()
            break
        else:
            print("Enter a valid key !")
            admin()
            break
login()
```




Windows PowerShell
>>> Enter a Key : 1
A1 In Use
A2 Free
A3 Free
B1 In Use
B2 In Use
B3 In use
C1 Free
C2 Free
C3 In Use
D1 Free
D2 In Use
D3 In use
1 ... Availability
2 ... Priority User
3 ... Bills
4 ... User Details
5 ... Log Out
>>> Enter a Key : 2
PRIORITY USER : {'name': 'nitheesh', 'password': '123', 'logins': 8, 'hours': 6, 'previous_bills': 1500}
1 ... Availability
2 ... Priority User
3 ... Bills
4 ... User Details
5 ... Log Out
>>> Enter a Key : 3
test ---> 2500
user1 ---> 7500
user10023 ---> 4000
nitheesh ---> 1500


Windows PowerShell
>>> Enter a Key : 3
test ---> 2500
user1 ---> 7500
user10023 ---> 4000
nitheesh ---> 1500
1 ... Availability
2 ... Priority User
3 ... Bills
4 ... User Details
5 ... Log Out
>>> Enter a Key : 4
Name : test 4 2500
Name : user1 2 7500
Name : user10023 7 4000
Name : nitheesh 8 1500
1 ... Availability
2 ... Priority User
3 ... Bills
4 ... User Details
5 ... Log Out
>>> Enter a Key : 5
Logged out Successfully !


Windows PowerShell
1 ... Admin
2 ... User
3 ... Exit
>>> Enter a Key : 2
User
..... CUSTOMER LOGIN .....
1 ... Sign In
2 ... Sign Up
3 ... Back
4 ... Exit
>>> Enter a Key : 2
Enter Name : nitheesh
Enter password : pass
!!! Updated Successfully !!!
User
..... CUSTOMER LOGIN .....
1 ... Sign In
2 ... Sign Up
3 ... Back
4 ... Exit
>>> Enter a Key : 1
Enter the userid : 2001
Enter the password : test
1 ... Allot a Cabin
2 ... Generate my bill
3 ... Previous bills
4 ... Log out
>>> Enter a Key : 1
You have been alloted with the cabin : A2


Windows PowerShell
Enter the password : test
1 ... Allot a Cabin
2 ... Generate my bill
3 ... Previous bills
4 ... Log out
>>> Enter a Key : 1
You have been alloted with the cabin : A2
1 ... Allot a Cabin
2 ... Generate my bill
3 ... Previous bills
4 ... Log out
>>> Enter a Key : 4