Computer Networks (UE20CS253) Assignment

TITLE: ONLINE SYSTEM FOR SCHEDULING MEDICAL APPOINTMENTS

Output screen shots:	
Server:	
healthcenterserver	
running in VM2	

Client:

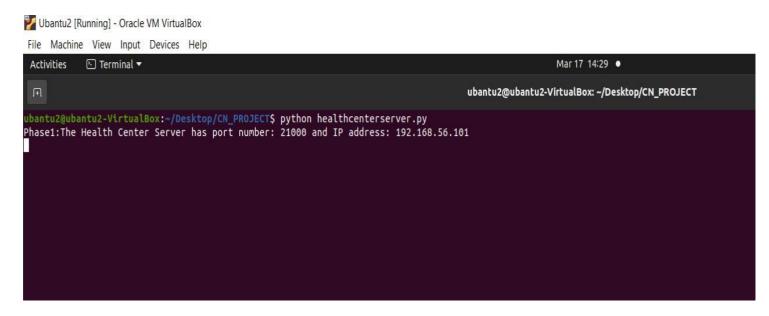
Patient1

Patient2

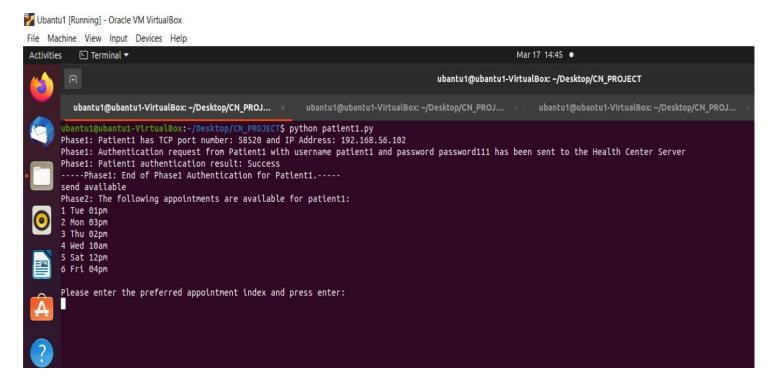
Running in VM1

Case1:

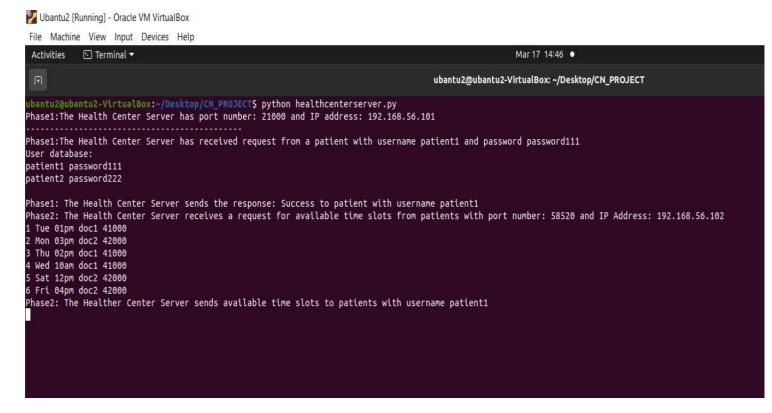
healthcenterserver running



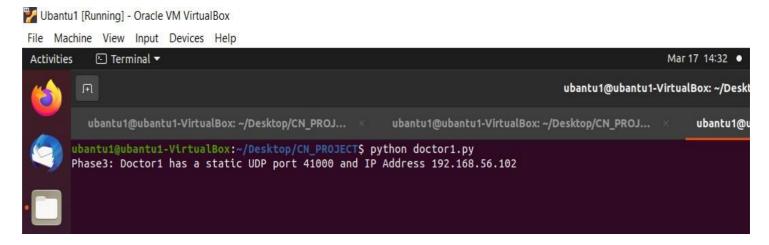
patient1 running



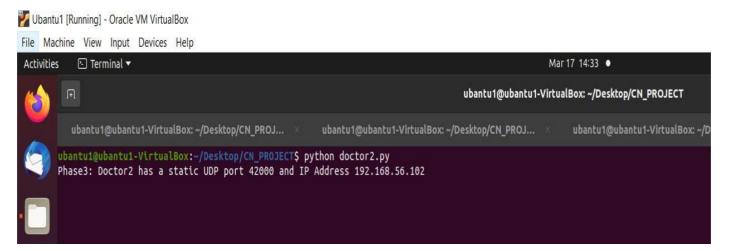
Server authenticating patient1's request.



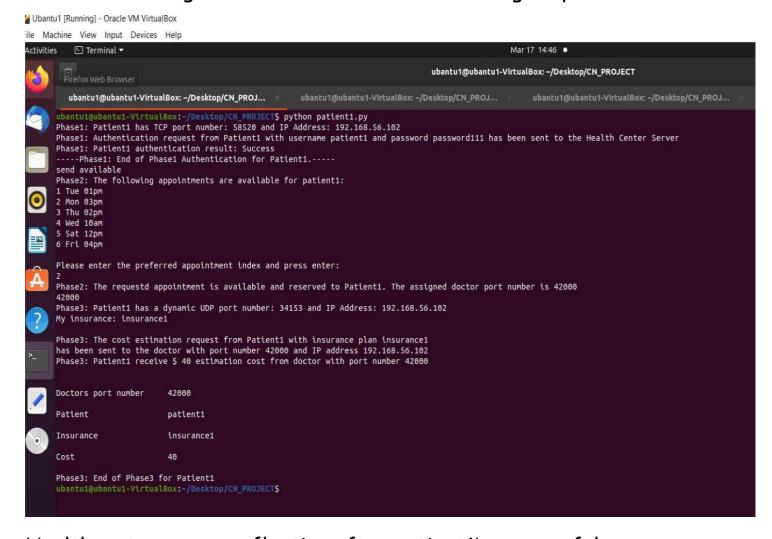
doctor1 running initially



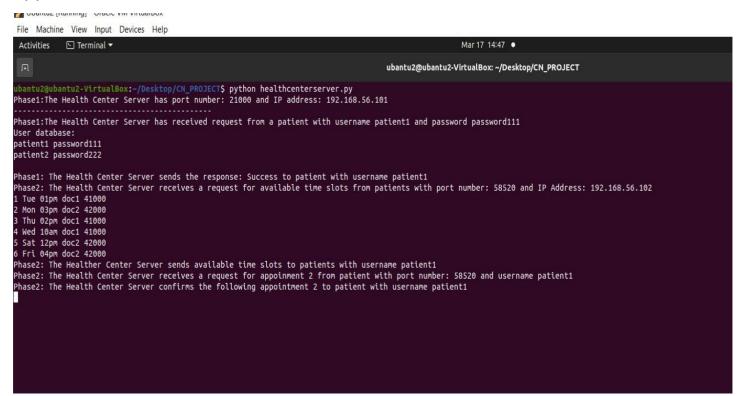
doctor2 is running initially



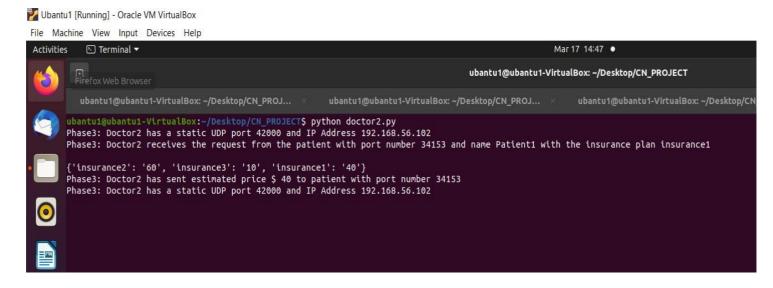
Patient1 entering the time slot index and receiving response.



Healthcenterserver reflection after patient1's successful appointment



doctor2's reflection after patient1's appointment



Case 2:

Patient1 giving Invalid index

```
ubantu1@ubantu1-VirtualBox:~/Desktop/CN_PROJECT$ python patient1.py
Phase1: Patient1 has TCP port number: 58524 and IP Address: 192.168.56.102
Phase1: Authentication request from Patient1 with username patient1 and password password111 has been sent to the Health Center Server
Phase1: Patient1 authentication result: Success
-----Phase1: End of Phase1 Authentication for Patient1.-----
send available
Phase2: The following appointments are available for patient1:
1 Tue 01pm
3 Thu 02pm
4 Wed 10am
5 Sat 12pm
6 Fri 04pm

Please enter the preferred appointment index and press enter:
8
Please enter the preferred appointment index and press enter:
```

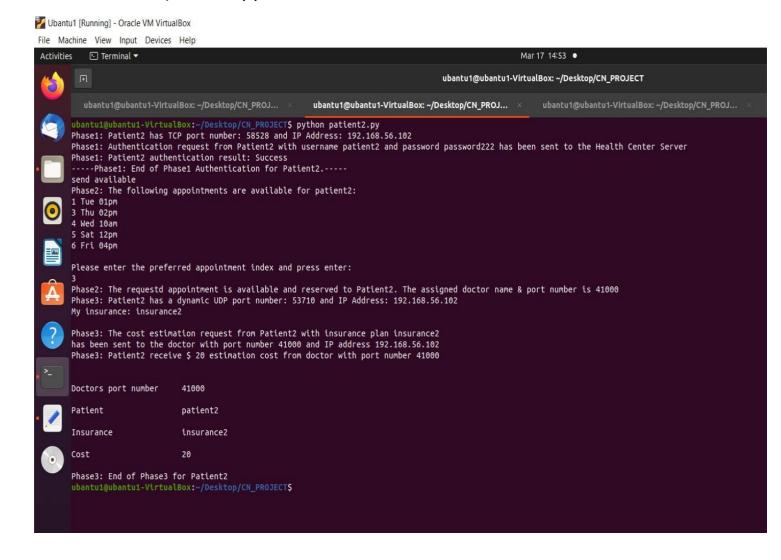
Healthcenterserver rejecting the request

```
Phase1:The Health Center Server has received request from a patient with username patient1 and password password111
User database:
patient1 password111
patient2 password222

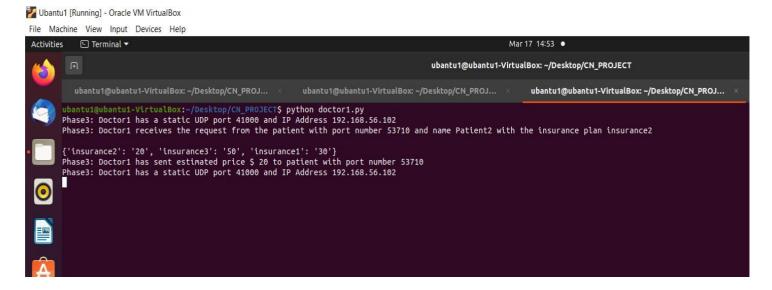
Phase1: The Health Center Server sends the response: Success to patient with username patient1
Phase2: The Health Center Server receives a request for available time slots from patients with port number: 58524 and IP Address: 192.168.56.102
1 Tue 01pm doc1 41000
3 Thu 02pm doc1 41000
4 Wed 10am doc1 41000
5 Sat 12pm doc2 42000
6 Fri 04pm doc2 42000
Phase2: The Healther Center Server sends available time slots to patients with username patient1
Receiving invalid time index, let patient re-enter
```

Case 3:

Patient2's request: Appointment Successful



Doctor1's reflection for Patient2's appointment



healthcenterserver's reflection for patient2's appointment

```
Phase1:The Health Center Server has received request from a patient with username patient2 and password password222
User database:
patient1 password111
patient2 password222

Phase1: The Health Center Server sends the response: Success to patient with username patient2
Phase2: The Health Center Server receives a request for available time slots from patients with port number: 58528 and IP Address: 192.168.56.102
1 Tue 01pm doc1 41000
3 Thu 02pm doc1 41000
4 Wed 10am doc1 41000
5 Sat 12pm doc2 42000
6 Fri 04pm doc2 42000
Phase2: The Healther Center Server sends available time slots to patients with username patient2
Phase2: The Health Center Server receives a request for appoinment 3 from patient with username patient2
Phase2: The Health Center Server confirms the following appointment 3 to patient with username patient2
```

Case 4:

Patient2 asking for already booked appointment

```
ubantu1@ubantu1-VirtualBox:~/Desktop/CN_PROJECT$ python patient2.py
Phase1: Patient2 has TCP port number: 58530 and IP Address: 192.168.56.102
Phase1: Authentication request from Patient2 with username patient2 and password password222 has been sent to the Health Center Server
Phase1: Patient2 authentication result: Success
-----Phase1: End of Phase1 Authentication for Patient2.-----
send available
Phase2: The following appointments are available for patient2:
1 Tue 01pm
4 Wed 10am
5 Sat 12pm
6 Fri 04pm

Please enter the preferred appointment index and press enter:
3
Phase2: The requested appointment from Patient2 is not available.----->Exiting
ubantu1@ubantu1-VirtualBox:~/Desktop/CN_PROJECT$
```

Healthcenterserver rejects the appointment

```
Phase1:The Health Center Server has received request from a patient with username patient2 and password password222

User database:
patient1 password111
patient2 password222

Phase1: The Health Center Server sends the response: Success to patient with username patient2

Phase2: The Health Center Server receives a request for available time slots from patients with port number: 58530 and IP Address: 192.168.56.102

1 Tue 01pm doc1 41000

4 Wed 10am doc1 41000

5 Sat 12pm doc2 42000

6 Fri 04pm doc2 42000

Phase2: The Healther Center Server sends available time slots to patients with username patient2

Phase2: The Health Center Server receives a request for appoinment 3 from patient with port number: 58530 and username patient2

Phase2: The Health Center Server rejects the following appoinment 3 to patient with username patient2
```