DON BOSCO INSTITUTE OF TECHNOLOGY

Premier Automobiles Road, Kurla (W), Mumbai-70

Approved by AICTE, Govt. of Maharashtra

&

Affiliated to the University of Mumbai

S.E. MINI PROJECT REPORT

On

HQUERY

Department of Computer Engineering

University of Mumbai

2021-2022

Project Title : **Hospital Query Resolution Interface**

Organisation : Don Bosco Institute of Technology

Address : Premier Automobiles Road,

Kurla (W), Mumbai-70

Project Team Members : 1. Kaushik Bedmutha
2. Abhiraj Mane
3. Gaurav Samanta

Internal Guide : **KALPITA AJINKYA WAGASKAR**

Address : Department of Computer Engineering,

Don Bosco Institute of Technology,

Premier Automobiles Road,

Kurla (W), Mumbai-400070

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INTERNAL GUIDE (s)

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HEAD, COMPUTER ENGINEERING

ABSTRACT

Online discussion forum is an important asynchronous interaction for Clients and Hospital Management .Firstly we have taken care that the Hospital & Hospital Quality Open Door Forum addresses the concerns and questions of the Hospital service setting.

TABLE OF CONTENTS

CHAPTER 1: INTRODUCTION

- Hospital Query Resolution Interface basically a forum where multiple users can connect with client-server architecture i.e the clients will interact with the help of the server in this forum including payment enquiry and conditions of Admission

CHAPTER 2: literature survey

{Paper 1}

[Name]

Inferring Community Structure in Healthcare Forums. An Empirical Study
T. Chomutare,E. Årsand,L. Fernandez-Luque,J. Lauritzen,G. Hartvigsen.

[Summary]

Network analysis is a tool that can be useful in studying implicit networks that form in healthcare forums. Current analysis informs further work on predicting and influencing interaction, information flow and user interests that could be useful for personalising medical social media.

[Concept]

To make a forum for solving doubts and queries and improving the current health system.

{Paper 2}

[Name]

'An introduction to network programming the Python way',M.Gordon

[Summary]

Chapters explain Python interfaces to the Secure Sockets Layer, HTML/XML parsing, and the mod/spl I.bar/python Apache module, as well as more advanced network programming topics such as IPv6 support, multithreaded servers, and nonblocking 1/0. The book also incorporates third-party networking libraries such as Twisted and PyDNS. Each chapter's text thoroughly explains the code samples, which are far more comprehensive than in the standard documentation. The reviewer feels that the book complements other introductory texts.

[Concept]

Concept of Socket Programming

{Paper 3}

[Name]

"Multithreading An Efficient Technique for Enhancing Application Performance"

[Summary]

Multithreading has been shown to be powerful for boosting a system performance. Producer / Consumer, Web services, Banking and Image compression are good examples of applications that benefit from threading. It is observed that multithreading leads to tune up the application performance considerably.

[Concept]

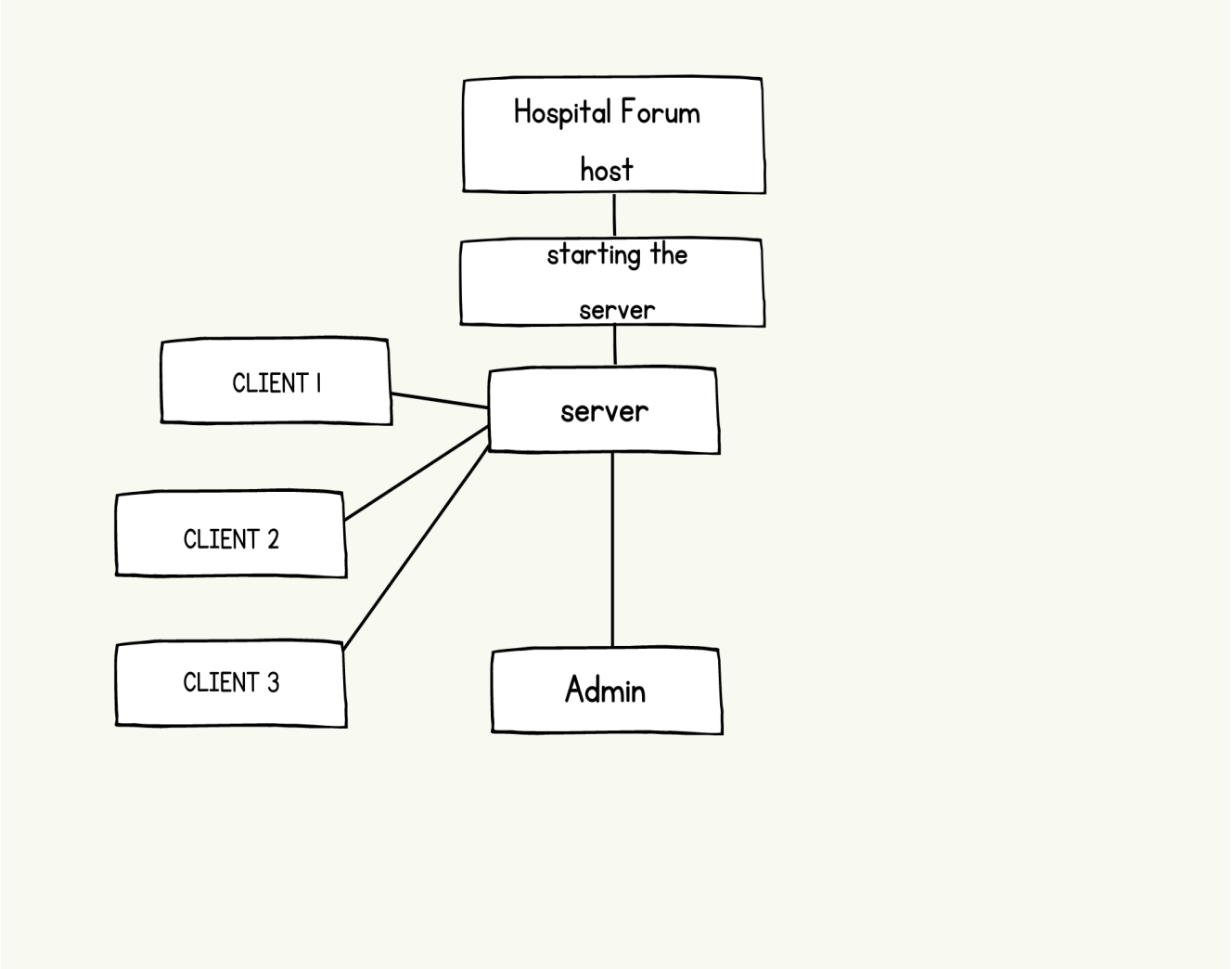
Concept of Multithreading.

CHAPTER 3: Proposed system

[Description]

- This is a simple Hospital Query Resolution Interface developed using Python. In Python we have used the Socket Module.
- It's a Hospital discussion form, where users will be able to enter their Query and get answers on various doubts .
- For example, the doubt can be related to Beds availability , is there cancer treatment or not etc. Each type of question will be under a particular forum. Registered users will be allowed to enter a query, providing answers to the questions.

[System Architecture]



[Requirements]

Hardware:

1. Minimum 4GB DRAM
2. Processor: Intel i3 gen 11th gen or above or AMD ryzen gen 3 or above
3. Minimum 2 GB hard drive space.
4. Internet connection

Software:

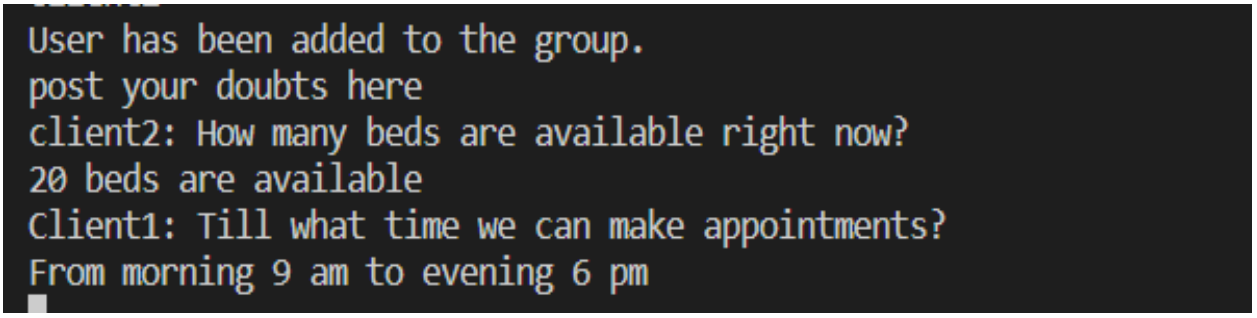
1. Operating System: Windows
2. Python
3. Software:VS code
4. Socket Module

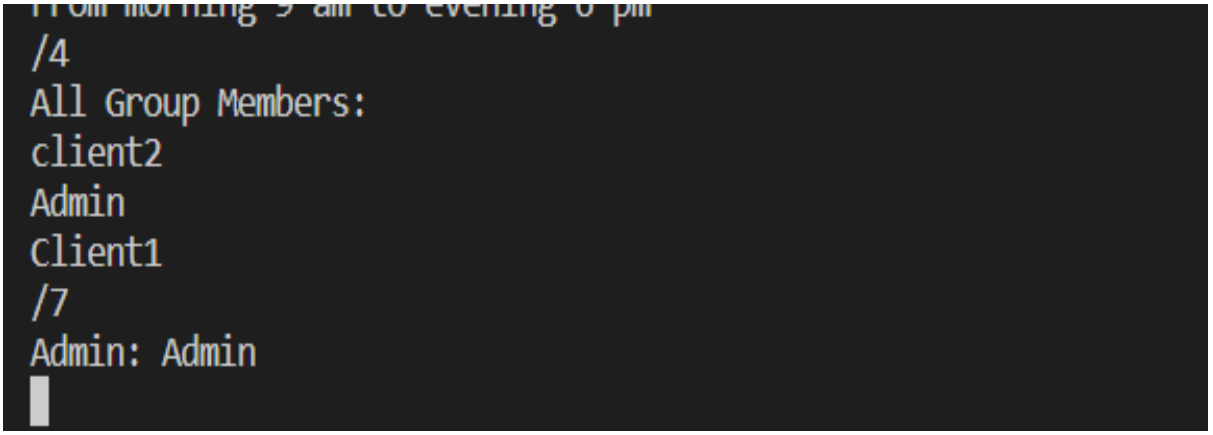
CHAPTER 4: Implementation plan

Following features can be used in our forum

Input	Feature
/1	It will view all pending join requests
/2	It allows to approve join requests and will ask for the username which we need to approve
/3	It will disconnect the user from the server
/4	It will view all members who left or joined the Server.
/5	It will show all online members.
/6	It will allow the current admin to transfer Adminship
/7	It will show current admin of the group
/8	It will allow to kick other users from the group.

Screenshots:





Conclusion

Implementation of the Hospital Forum project helps to connect users and solve their doubts online. No need to travel so far .It Also provides coordination and user communication with the Hospital Admin Directly. It also solves the real time problem by Discussions.

References

- **Inferring Community Structure in Health Care Forums An Emphirical Study', T. Chomutare, E. Årsand,L. Fernandez-Luque,J. Lauritzen,G. Hartvigsen, DOI: 10.3414/ME12-02-0003**

- **An introduction to network programming the Python way',M.Gordon**

- **"Multithreading An Efficient Technique for Enhancing Application Performance" Dr.A.Anthony Irudayaraj**

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Project Team Members :

1. Kaushik Santosh Bedmutha S. E. – (05)

2. Gaurav Samanta S. E. – (48)

3. Abhiraj Sanjay Mane S. E. – (30)