*ABSTRACT*

Chat servers today are readily available and very useful in conversing with people

that might be close by or far away. Internet chat services like AOL provide the

convenience of conversing with people in real time. This service provides a host of

possibilities for work, school, and connectivity. Unfortunately these widely available chat

services do not provide protection/privacy of what is being sent through the chat servers.

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*PREFACE*

* One of the most important uses of computers is an aid to managers and administrators. This **Chat Server** helps scholars to do all information flows and communicate immediately, which saves a lot of time in doing paperwork.
* This report covers all information about working of the project and their benefits. In the information chapter all the information about the project is given. This chapter also inform about the platform on which the project has been developed.
* System analysis describes existing system, proposed system according to the needs and the feasibility.
* System testing informs about the testing module of the system, by which system has been tested after testing implementation describes how the user will interact with the system.
* In the input/output screen layout input and the output are given, which is important to ensure that the results obtained from this project are correct and reliable. The next chapter about the scope of development indicates the benefits of the project.

*INTRODUCTION*

* The current system that is working is manual one. So it is cumbersome, slow, and sometime unreliable as well .It cannot be easily manipulated and can be easily tempered.
* Also the software which is available is hard to operate by individual who have no knowledge of computer.
* So the software which we are developing can be easily understood. So it is user friendly and can run easily on cheap hardware which is easily available on software Platform. It increases accuracy and dependability of the system.
* It is assumed that the Chat server software that we are developing would be widely appreciated by various organizations.
* Which are thinking of computerizing their operation . Its simplicity and dependability is the greatest advantage. Another advantage of the software is that it can be modified further according to the increasing need of the user.

*EXISTING SYSTEM*

The older system is based on manual processing. All this procedure involves a lot of paperwork. Most of the times it seems a herculian task to pass various written information among the employees of the organization. The evaluation on the paper is very hectic task and is also time consuming. A lot of writing work is required and paper is wasted.

*FEASIBILITY STUDY*

* **Technical feasibility**
  + **Hardware Requirements**

Processor : INTEL PENTIUM-IV

RAM : At least 128 MB

HDD : At least 100 MB

* + **Software Requirements**

Platform : Windows XP

Language : Java

RDBMS : MS-Access

* + **Backup Media**

PEN DRIVE, COMPACT DISC

* + **Operational feasibility**

The person having the working knowledge of the computer can easily

operate the system; he or she does not require any sort of training.

* **Economic feasibility**

The following are the benefits of the project:-

* + **Cost reduction**

This system would reduce the cost in paper and paper related

tasks. This would also reduce cost of operating the system

Manually.

* + **Improve service-level benefits** The proposed system improves the system performance because the older system is based on manual processing while proposed system is based on computer processing.
  + **Time saving benefits**

It saves a lot of time and provides same result in very less

Amount of time.

* **Management feasibility**

This system would be feasible because the organization has to

maintain a lot of records and update the record of every member

*PROPOSED SYSTEM*

**To develop Chat server system**

* Firstly this project has been designed to make the organization of any type automated.
* To provide the organization with the facility to gather the

Services available.

* To make the information flow easier.
* To lower the workload of employees up to some extent.

*DATA FLOW DIAGRAM*

*SYSTEM TESTING*

Software testing is the process of executing a program or system with the intent of finding errors or it involves any activity aimed at evaluating an attribute or capability of a program or system and determining that it meets its required results. Software testing is a process used to identify the correctness, completeness and quality of devolved computer software.

This main purpose of testing an information system is to find the errors and correct them.

A successful test is one, which finds errors. The main objectives of system testing are:

* To ensure that during operation the system will perform as per specification
* To make sure that the system meets users’ requirements during operations.
* To verify that controls incorporated in the system function as intended.
* To see that when correct inputs are fed to the system correct output is obtained.

There are many test procedures to test a system. But for the testing of the component overhaul lifetime and testing begins with the atomic module(i.e component at the lowest level in the program structure) .

*IMPLEMENTATION*

We have done this project as Windows platform. Windows platform is very convenient for such purpose because it provides such an environment that the changes made in any type of the data can be viewed from anywhere at anytime after making changes.

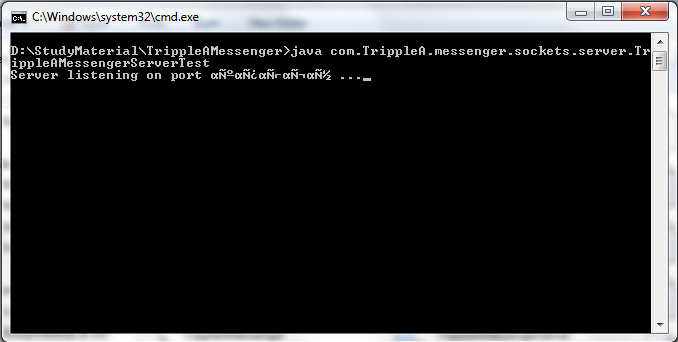
This project is based on client – server architecture .In this system client request to server & server respond to client. In this project server wok as a postman which deliver messages of one client to another client.

In this project we use all networking , multithreading & multicasting features of java for efficient working of chat server.

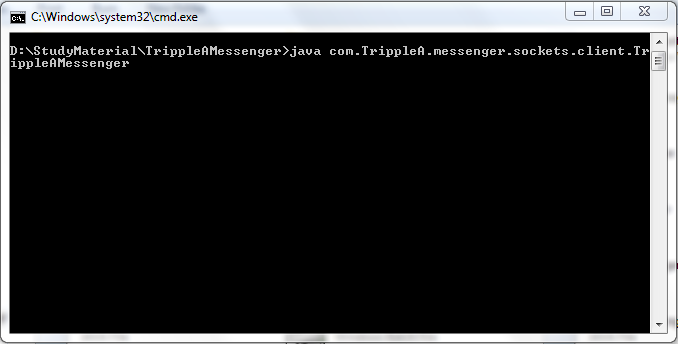
When the user run the messenger he/she see the two buttons on top of messenger screen. When he/she click on connect button the input name dialog appear. By entering his/her name user can connect to the server for chat.

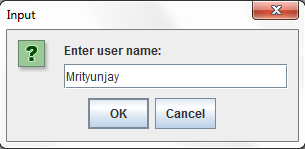
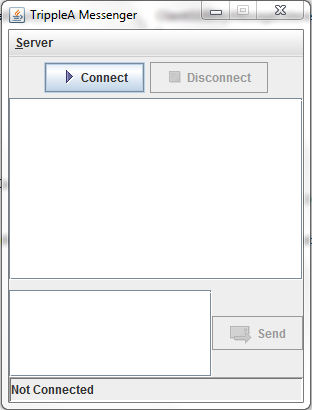
*OUTPUT*

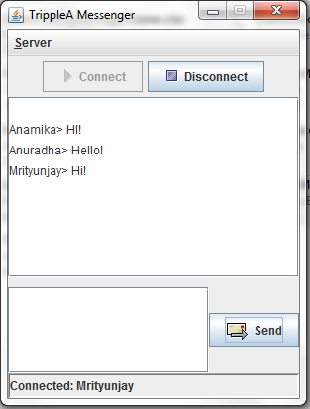
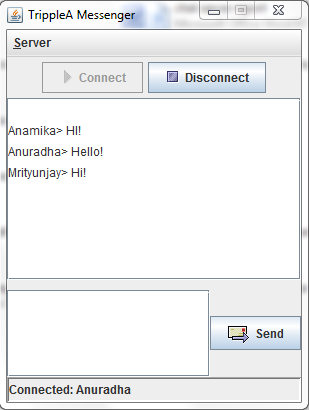
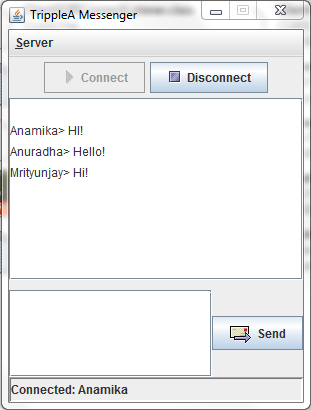
*Server listening:*



*Client:*







*CONCLUSION*

The new system would be more powerful and efficient than the older system because it is based on computers. The system is in testing phase at the present.

It is possible that we have to improve it according to the users’ needs.

This system is cost efficient because it reduces the cost of the paper and also saves a lot of time that is wasted in sending the information manually.

Clearly this system has got to serve the purpose of maintaining the records of the organization in the more efficient and effective way one could imagine.

*Future SCOPE*

This project can be used for the small or large organization.

Further improvements in the system could make more and more efficient.

This system ensures safe and secure organisation avoiding the human errors.