

# **DESIGN FINAL RELEASE**

## **INTRODUCTION:**

Teleconferencing or Chatting , is a method of using technology to bring people and ideas together despite of the geographical barriers.The technology has been available for years but the acceptance of it was quite recent.Our project is an example of a chat server.It is made up of 2 applications the client application,which runs on the users server application,To start chatting client should get connected to server where they can do registration,login and exchanges messages between the two users.This project is to create a chat application with a server and users to enable the users to chat with each others.To develop an instant chatting solution to enable users to seamlessly communicate with each other.

## **SCOPE AND FEATURES:**

- Broadcasting Char Server Application is going to be a text communication software,it will be able to communicate between two computers using point to point communication.
- The limitations of Chat is it does not support audio conversions.To overcome this limitation we are concurrently working on developing better technologies.
- Companies would like to have a communication software where in they can communicate instantly within their organization.
- The fact that the software uses an internal network setup within the organization makes it very secure from outside attacks.

## **DFD DIAGRAM:**

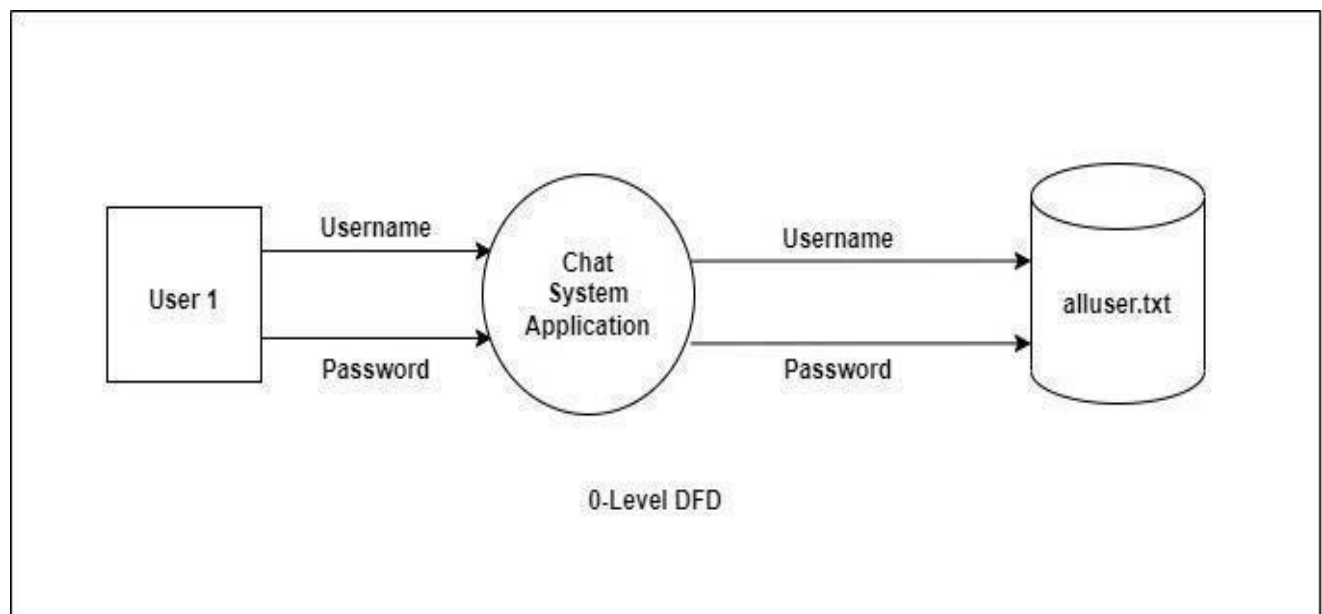
A data flow diagram shows the way information flows through a process or system. It includes data inputs and outputs, data stores, and the various subprocesses the data moves through. DFDs are built using standardized symbols and notation to describe various entities and their relationships.

Data flow diagrams visually represent systems and processes that would be hard to describe in a chunk of text. You can use these diagrams to map out an existing system and make it better or to plan out a new system for implementation. Visualizing each element makes it easy to identify inefficiencies and produce the best possible system.

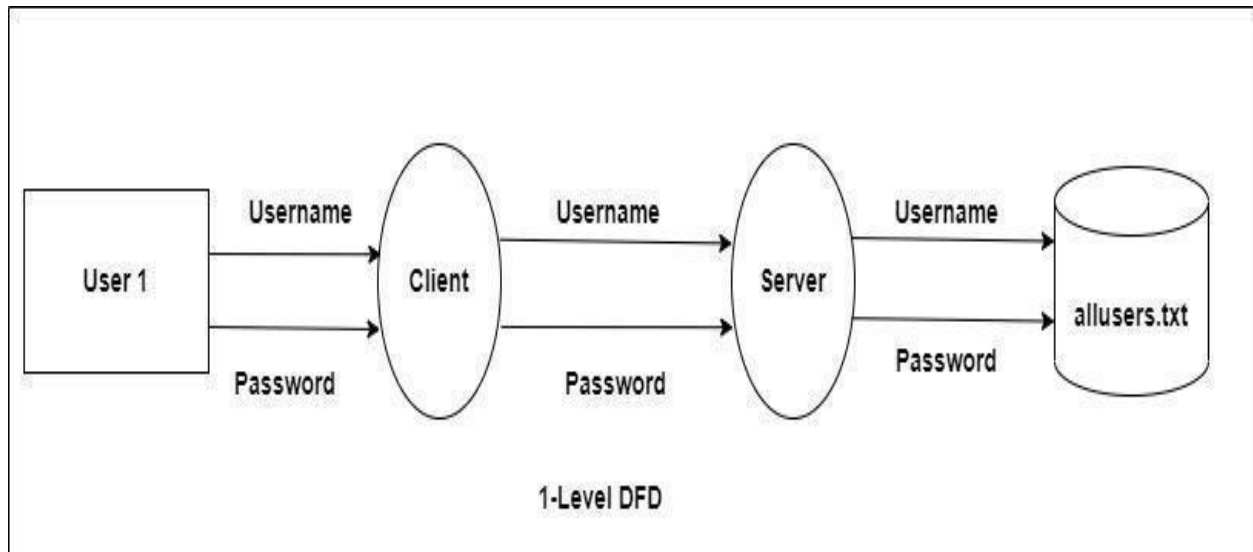
The four basic symbols used to construct data flow diagrams are-

## DFD LEVEL 0:

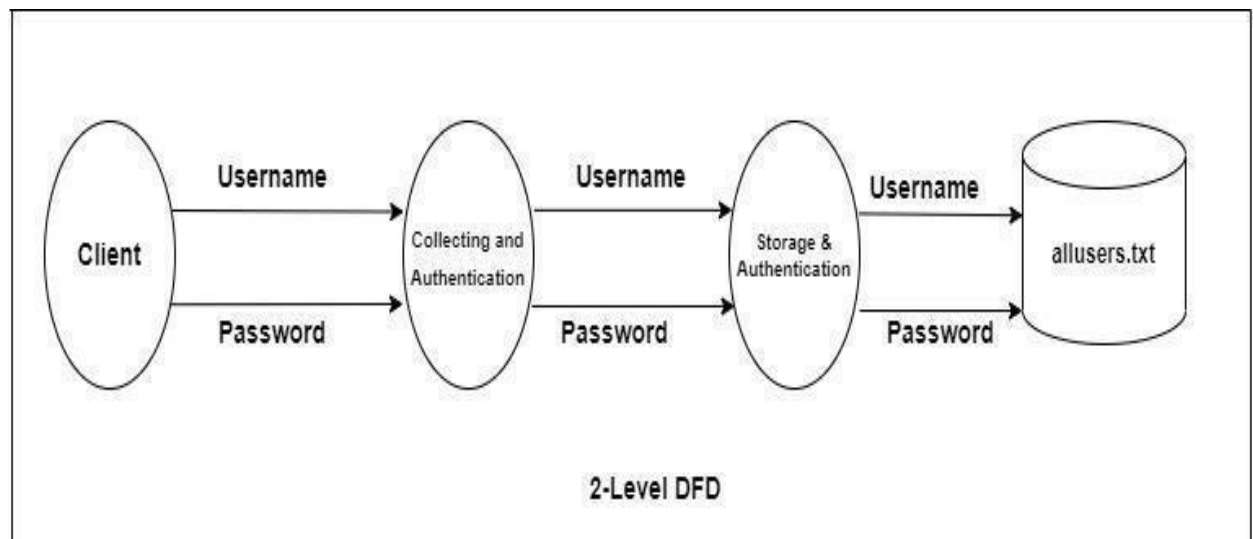
It is the entry level of data flow model where user try to register his name using his credentials in the caht application. To use the services of the application . This credentials will be stored in the alluser.txt file to use in future when user try to login using his credentials the credentials,the credentials consistes of username and password



## DFD LEVEL 1:

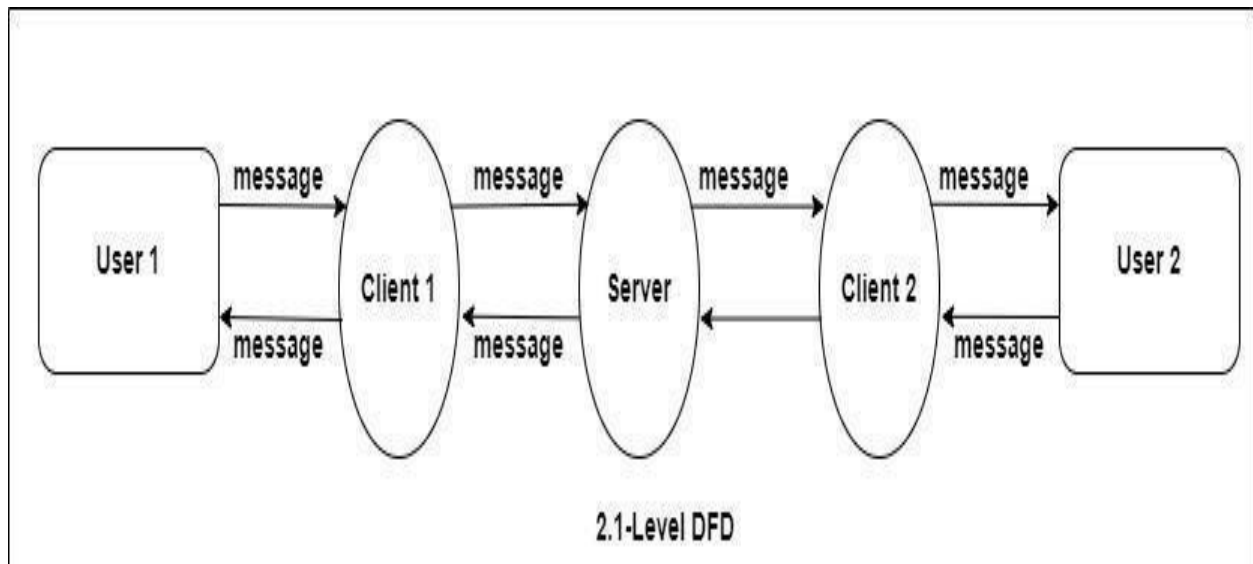


## DFD LEVEL 2:



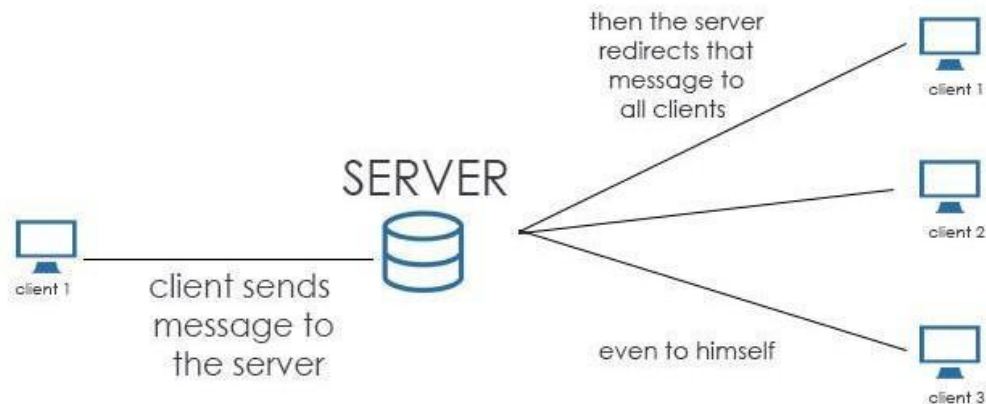
## DFD LEVEL 2.1:

this level performs main operation of the model where users will communicate with each other by sending and receiving messages by using client server as intermediate

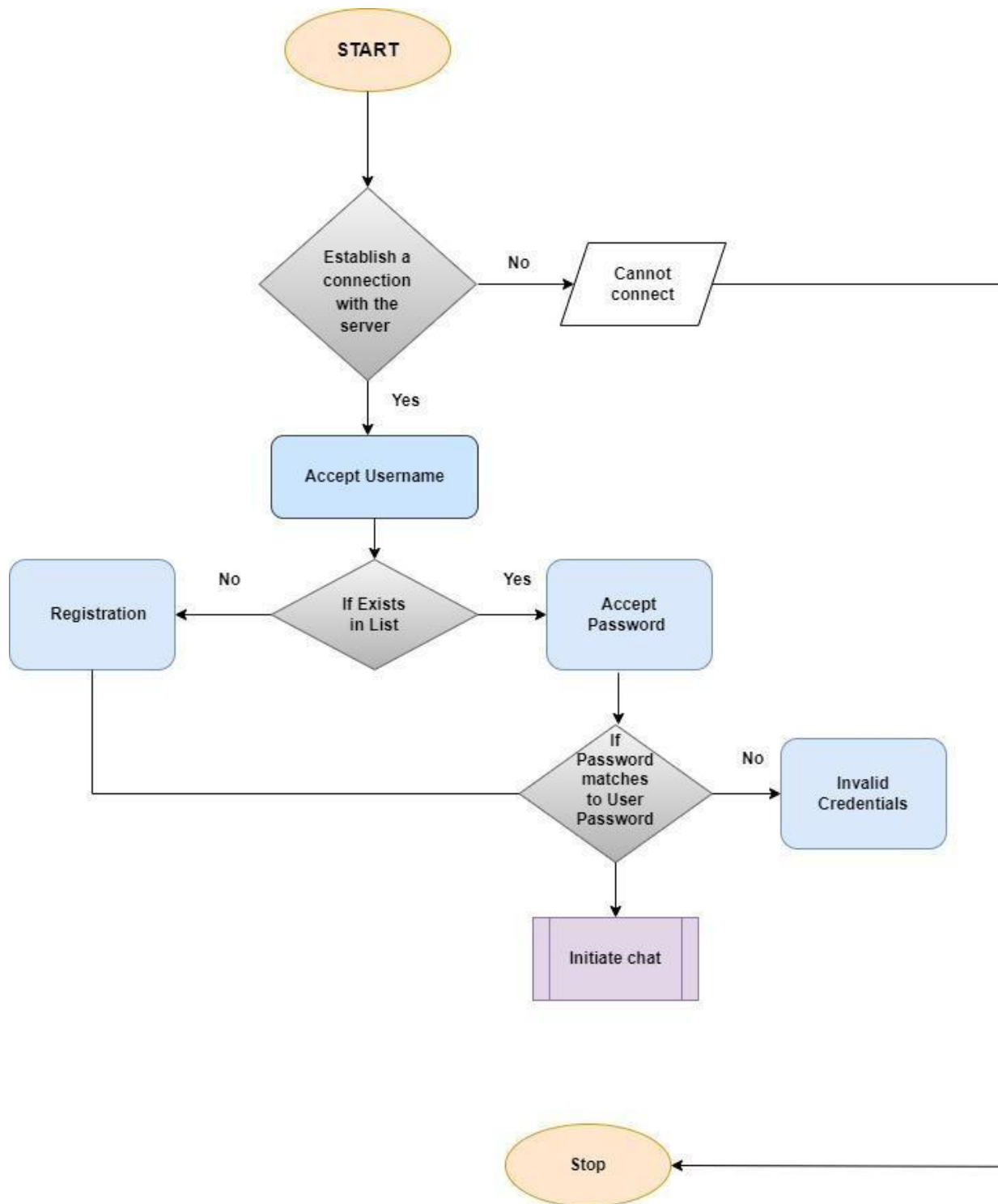


## **System Architecture:**

If user 1 sends a message intended for user 2, the message first emerges from the user 1's chat application, travels through the connection between user 1 and the server, and reaches the server. The server notes that the message has arrived from user 1. Then the server reads the message from user one. The intended recipient for the message is user 2, so the server accepts the connection (IP Address) corresponding to user 2. The server writes the message to user 2 and the messages finds its way to user 2 chat application. This continues until one of them user (1 or 2) says "Bye", then the connection is destroyed.



## FLOW CHART:



## Initiate Chat:

