**Chat Application using HTTP Protocol**

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Requirements**:** Developing a chat application using http protocol

OS: Linux

Starting the app:

* Starting the server: run on terminal -> Python3 server.py
* Setting up clients: run on terminal -> Python3 server.py (run this command twice on different terminal to create 2 clients)

Design:

Server

Post Request

Client 1

{Lakshman: hi Lakshman}

Getting message in response to get request

(Hi Lakshman)

(Lakshman)

Get request

Getting message in response to get request

Post Request

Message : hi Lakshman)

(His friend name: Lakshman

Client 2

Client1 will post request the server with 2 details , first name of the friend and message .

These 2 details are stored at server in form of key value pair.

On entering the details by client2 , it will also post request the server the same 2 details but also get request the server for getting his message.client2 will send his own name with get request.

Server’s work : server will accept the get request from the client and match the client’s name with key of dictionary. If server is successful in searching and results get match , it will send the value of the key as response to get request from the client

Client1 will enter 3 parameters:

1. His own name : Ram
2. His friend name : Lakshman
3. His message : Hi lakshman

Client2 will also enter 3 parameters

1. His own name : Lakshman
2. His friend name : Ram
3. His message : Hi Ram

Working :

in order to get message to client2 from client1 , client2 is required to enter all his details . then only client2 can see his message from client1 .

Future scopes:

1. receiving message by client2 at that time only when client1 sends message . client2 doesn’t have to send his message first in order to receive his message.
2. If any client disconnects, a message is displayed to another client talking to it.