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Hssignment -

Title !- Socket programming.

Problem statement:

Enhance the system with the help of socket programming, use dient server architectione Develop chat server

Objective 1-

To learn basic & advanced techni ques of socket based client server programmin - To understand java-net parkage of J2SE APJs which provides the low level communi

- cation details,

- To understand TCP/UDP client senver application development

Outcome

- Design & implement socket programmi

vg in Java

- Implement TCP/UDP dient server application development.

s/w & H/w requirements:

Java; se developemen

Kit, fedora 05 et bit, programming toole

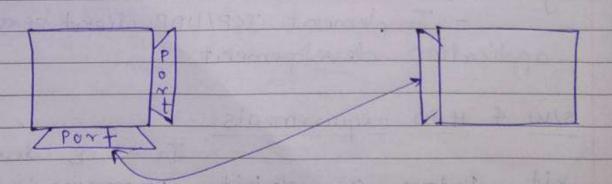
Concept related theory:

Java crecutes application using sockets programmers application using sockets programmers and client mic makes request to platform / program running on server involves networking services provided by transport layer. Transport layer has a protocols (TCP, UDP). These are port to map incoming data to particular process on computer.

A socket is a software endpoint the establishes bidirectional communication beth a server program of one or more client

Server of request client

request to the senser.



session established with temporary ports used for 2-way communication

The socket associates the server program with a specific handware past on machine where It runs to any client program anywhere In the network with a socket associated with that same port can communicate with server program.

Steps 1-

- 1) Open the senier socket; Server socket - new Server socket (post);
- 2) wait for the client request socket client = server.accept().
- 3) meate I/o streams for communicating to the client

Data Trput Stream is = new Data Trput Stream (client get Juput Data Output Stream os : new Data Output Stream (client get output stream)

- 4) Perform communication with servers from (lies

 Reviewe from Client

 String line = is readline();

close the socket when done

client. close();

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Opplications: Client-Server: Client-Server: Client programm To connect a socket conne	to other other	er machine i	ere need
Socket s	cket = hew TOP POS used to a him.	ed explicitly	overs and a
- accept() met	had used -	to connect ac	lient to
Test-Cases:	Spanista man	A Service And	1208ult
2. Chat to Admin	Somer: Welcome client: Some Fo Somer: Resolu client: Over	sue same	Success
Sign Up as Employee Manager (name: "admin")	eptions for Employee Manager (respective options)	Same	Success

Appli

Test.

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Conclusion:
server cesing socket programming in Java.