Client-Server

Client

Request

Response

Server
HTTP requests

Request-Line
*( general-header | request-header | entity-header ) CRLF
CRLF
[message-body]

Example

GET www.kth.se/schedule HTTP/1.1
Authentication: <username> <password>

(body not required)

Note: CRLF is carriage return line feed which basically means new line (\r\n in ASCII)
What is a socket?

A socket is an interface between an application (in our case elixir code) and the network.

Once a connection is established with the client, sending data to the socket will send it to the client.
# create a listening socket
listen_socket = :gen_tcp.listen(port, opt)

# accept an incoming connection request
client_socket = :gen_tcp.accept(listen_socket)

# receive packet from client
recv = :gen_tcp.recv(client_socket, 0)

# send packet to client
:gen_tcp.send(client_socket, packet)

# close sockets
:gen_tcp.close(client_socket)
:gen_tcp.close(listen_socket)

**listen_socket** is the listening socket, used to establish connections.

**client_socket** is the socket that is used to send and receive packets between client and server.
Good luck!