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Systems & Networks 2 COP4635

Project 1

Protocol Document

Protocols

The system uses HTTP to transfer HTML through the network. The HTTP protocol consists of two main factors - the header and the body. The header should indicate the HTTP version, status code, and response message, followed by multiple lines of arguments describing how the data should be interpreted. These arguments include the date, the length of the content, whether the transfer should be connectionless or not, the content type - text/html, image/png, etc. - then two blank lines that separate the header from the body. The body should be the content that was to be sent over the transfer. If the content was HTML then the body should be an HTML file, if it is an image then it would be byte data representing the image according to the type of image.

The client's job is to send a request to the server through the network, so that it may receive a response. This request can come in many ways but a common way to get a request is the GET http request type. A client's request is given to the server as GET /<route> HTTP/<version> followed by multiple lines of connection descriptors. These descriptors tell the server what kind of information the client expects to receive. Such as Accept: image/webp, image/apng, image/* which tells the server that the client expects to be sent image data.