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**COP4635**

**Project1**

**Protocol Document: HTTP Communication between Browser Client and Server**

**Introduction:**

This protocol document describes the message exchange between a browser client and an HTTP server for handling HTTP requests and responses.

**Client-Server Communication:**

The communication between the browser client and the HTTP server follows the request-response model.

The client sends an HTTP request to the server, and the server responds with an HTTP response.

**HTTP Request Format:**

The HTTP request sent by the client to the server consists of the following components:

Status Line: Contains the HTTP version, status code, and status message.

Headers: Additional metadata about the response, such as content type, content length, etc.

Body: The actual content of the response, such as HTML, images, etc.

**Request Methods:**

The client can use various HTTP methods in the request, such as GET, POST, PUT, DELETE, etc.

The GET method is used to request data from a specified resource.

The POST method is used to submit data to be processed to a specified resource.

**Status Codes:**

The server responds with various status codes indicating the outcome of the request.

Common status codes include 200 (OK), 404 (Not Found), 500 (Internal Server Error).

**Message Exchange:**

**Client Request:**

The client constructs an HTTP request with the appropriate method, URL, headers, and optional body data.

The client sends the request to the server using TCP/IP.

**Server Response:**

The server receives the request, processes it, and generates an appropriate HTTP

response.

The server sends the response back to the client using TCP/IP.