Chapter 22

HTTP

- Transaction
- Request Message
- Response Message
- Header
Figure 22-2

Message categories

Messages

Request
Response

Figure 22-3

Request message

Request line

Headers

A blank line

Body
(present only in some messages)
Forouzan Notes 22-5

Figure 22-4

Request line

- Request type (method)
- URL
- HTTP version

Space

Figure 22-5

URL

Uniform resource locator

- Method
- Host
- Port
- Path

Forouzan Notes 22-5

COSC 6377 - Fall 2000

Figure 22-6

Response message

<table>
<thead>
<tr>
<th>Status line</th>
</tr>
</thead>
<tbody>
<tr>
<td>Headers</td>
</tr>
<tr>
<td>A blank line</td>
</tr>
<tr>
<td>Body</td>
</tr>
<tr>
<td>(present only in some messages)</td>
</tr>
</tbody>
</table>

Figure 22-7

Status line

HTTP version

Status code

Status phrase

Space

Space
Figure 22-8

Header format

Space

Header name

Header value

Figure 22-9

Headers

Request line

Status line

General headers

General headers

Request headers

Response headers

Entity headers

Entity headers

A blank line

A blank line

Body

Body

Request message

Response message
Example 1

Client Request (Get method)

GET /usr/bin/image1 HTTP/1.1
Accept: image/gif
Accept: image/jpeg

Response

HTTP/1.1 200 OK
Date: Mon, 04-Jan-99 13:15:14 GMT
Server: Challenger
MIME-version: 1.0
Content-length: 2048

(Body of the document)

Example 2

Client Request (Head method)

HEAD /usr/user/file1.html HTTP/1.1
Accept: */*

Response

HTTP/1.1 200 OK
Date: Tue, 05-Jan-99 13:15:14 GMT
Server: Challenger
MIME-version: 1.0
Content-type: text/html
Content-length: 1020
Client

Request (Post method)

POST /cgi-bin/doc.pl HTTP/1.1
Accept: */*
Accept: image/gif
Accept: image/jpeg
Content-length: 50

(Input information)

Response

HTTP/1.1 200 OK
Date: Mon, 04-Jan-99 13:15:14 GMT
Server: Challenger
MIME-version: 1.0
Content-length: 2000

(Body of the document)