CHAPTER 27

WWW and HTTP

Solutions to Review Questions and Exercises

Review Questions

1. HTTP is a file transfer protocol that facilitates access to the WWW.
2. HTTP is like SMTP because the data transferred between the client and server are similar in appearance to SMTP messages. Also, the format of the messages is controlled by MIME-like headers.
3. HTTP is like FTP because they both transfer files and use the services of TCP.
4. The URL is a standard that facilitates the access of documents on the Web. A URL defines a method, a host computer, a port, and a path.
5. A proxy server is a computer that keeps copies of responses to recent requests. When an HTTP client has a request, the cache of the proxy server is checked before the request goes to the regular server.
6. A browser consists of a controller, client program, and interpreters.
7. A Web document can be classified as either static, active, or dynamic.
8. Hypertext Markup Language (HTML) is a language for creating Web pages.
9. A dynamic document is the product of a program run by a server as requested by a browser. An active document is the product of a program sent from the server to the client and run at the client site.
10. The Common Gateway Interface (CGI) is a standard that creates and handles dynamic documents.
11. Java is one of the languages that is used to write an active document.

Exercises

12. The first picture will be centered and the second will be at the bottom.
13. On the screen you see: The publisher of this book is McGraw-Hill Publisher.
14. GET /usr/users/doc/doc.1 HTTP/1.1
   Date: Fri, 13-Jan-06 08:45:20 GMT
   MIME-version: 1.0
   Accept: image/gif
   Accept: image/jpeg
   Last modified: Mon, 09-Jan-06

15. HTTP/1.1 200 OK
   Date: Fri, 13-Jan-06 08:45:25 GMT
   Server: Challenger
   MIME-version: 1.0
   Content-length: 4623

(Body of document)

16. HTTP/1.1 302 Moved permanently
   Date: Fri, 13-Jan-06 08:45:25 GMT
   Server: Challenger
   Location: /usr/deads/doc.1

17. HTTP/1.1 400 Bad Request
   Date: Fri, 13-Jan-06 08:45:25 GMT
   Server: Challenger

18. HTTP/1.1 401 Unauthorized
   Date: Fri, 13-Jan-06 08:45:25 GMT
   Server: Challenger

19. HEAD /bin/users/file HTTP/1.1
   Date: Fri, 13-Jan-06 10:40:22 GMT
   MIME-version: 1.0
   From: mzzchen@sinonet.cn

20. HTTP/1.1 200 OK
   Date: Fri, 13-Jan-06 10:40:27 GMT
   Server: Challenger
   Content-type: image/jpeg
   Content-length: 4623
21. COPY /bin/usr/bin/file1 HTTP /1.1
   Date: Fri, 13-Jan-06 10:52:12 GMT
   MIME-version: 1.0
   Location: /bin/file1

22. HTTP/1.1 200 OK
   Date: Fri, 13-Jan-06 10:53:00 GMT
   Server: Challenger

23. DELETE /bin/file1 HTTP /1.1
   Date: Fri, 13-Jan-06 11:04:22 GMT
   Server: Challenger
   Authentication: swd22899/3X4ake88rTfh (Not discussed in the book)

24. HTTP/1.1 200 OK
   Date: Fri, 13-Jan-06 11:11:02 GMT
   Server: Challenger

25. GET /bin/etc/file1 HTTP /1.1
   Date: Fri, 13-Jan-06 11:22:08 GMT
   MIME-version: 1.0
   Accept: */*
   If-modified-since: 23-Jan-1999 00:00:00 GMT

26. HTTP/1.1 200 OK
   Date: Fri, 13-Jan-06 11:24:06 GMT
   Server: Challenger
   MIME-version: 1.0
   Content-length: 2686

   (Body of document)

27. GET /bin/etc/file1 HTTP /1.1
   Date: Fri, 13-Jan-06 11:41:02 GMT
   MIME-version: 1.0
   Accept: */*
   Host: Mercury
   Authentication: swd22899/3X4ake88rTfh (Not discussed in the book)

28. HTTP/1.1 200 OK
29. PUT /bin/letter HTTP/1.1
   Date: Fri, 13-Jan-06 11:47:00 GMT
   MIME-version: 1.0
   Accept: text/html
   Accept: image/gif
   Accept: image/jpeg
   Location: /bin/letter

30. HTTP/1.1 200 OK
    Date: Fri, 13-Jan-06 11:51:02 GMT
    Server: Challenger
    MIME-version: 1.0
    Content-type: text/html
    Content-length: 6324
    Age: 10:06:02
    Expires: 09-May-06 00:00:00 GMT