Introduction to Servlets Quiz

1. What is the difference between a web server and a web container?

Ans

In Web Container or Servlet Container or Servlet Engine : is used to manage the components like Servlets, JSP. It is a part of the web server.

Web Server or HTTP Server: A server which is capable of handling HTTP requests, sent by a client and respond back with a HTTP response. anything that serves web pages. Apache, Apache/Tomcat, IIS and JBoss/Tomcat are all examples of web servers.

1. What is a servlet?

Ans

Servlet is a Java class that extends the capabilities of servers that host applications access by means of a request-response programming model.

1. How do web servers and web containers interact with servlets?

Ans

Servers that support servlets have as a helper app a servlet container.

When a request comes to the web server, if the server sees the request is for a servlet, it passes the request data to the servlet container.

The servlet container locates the servlet, creates request and response objects and passes them to the servlet, and returns to the web server the response stream that the servlet produces.

The web server sends the response back to the client browser to be rendered.

1. Who creates request objects?

Ans

Servlet container creates the request and response for servlet.

1. What are the states in the servlet lifecycle?

Ans

First - load the class

Second - intstantiate servlet

Third - init() called once in the servlet’s life

Fourth - service() called for each request runs in a separate thread

Fifth - destroy() called once when the process is done

1. Who calls init and when?

Ans

Container to initialize it with configuration

1. Which of init, service, and doGet should you override?

Ans

Both init and doget should we override

init and destroy, to manage resources that are held for the life of the servlet

doGet, if the servlet supports HTTP GET requests

doPost, for HTTP POST requests

1. In what sense are servlets multi-threaded?

Ans

When a request comes to web server initialize object once,the Servlets typically run on multithreaded servers, there is only one instance for a servlet and many user/many threads/many request may access the instance concurrently.with service() called for each request runs in a separate thread

1. What are the implications of this for servlet instance variables?

Ans

Implies for the class servlet