Introduction to Servlets Quiz

# What is the difference between a web server and a web container?

The web server is responsible for serving static content or dynamic content. The web container is a component of the web server and is only responsible for generating HTML by executing JSP and Servlet on server side.

# What is a servlet?

The servlet is server-side java code that can handle http requests and return dynamic content.

# How do web servers and web containers interact with servlets?

When a web server is started, it will initialize its web container or servlet container, after that the web container will create servlets which are defined in the web.xml file.

When a HTTP request is coming, the web container will create a new thread to call relevant servlet.

# Who creates request objects?

When receiving a new request, web container will create 2 objects, HttpServletRequest and HttpServletResponse

# What are the states in the servlet lifecycle?

There are 2 states, doesn’t exist and initialized.

# Who calls init and when?

When a request is coming, the web container will create a new thread which will call a relevant servlet, in this calling the init method will be called, as well as service method.

# Which of init, service, and doGet should you override?

The doGet method should be overridden to handle a coming request.

# In what sense are servlets multi-threaded?

As we know the web container will create a new thread for each coming request before calling a servlet, if a servlet has many requests, it will operate as multi-threads to proceed these requests.

# What are the implications of this for servlet instance variables?

Because a servlet can be called from many threads, static variables and member variables are not thread safe, only local variable is thread safe