



J2EE

The top half of the image features a dark background with a futuristic, digital aesthetic. On the left, the word "Java" is written in a large, stylized font with a red-to-blue gradient and a trademark symbol. To the right, there is a glowing, multi-layered square structure resembling a server rack or a complex circuit board, emitting bright orange and yellow light. The background is filled with faint, glowing lines and dots, suggesting a network or data flow.

Java™

About Course

J2EE stands for Java 2 Platform, Enterprise Edition.

J2EE is the standard platform for developing applications in the enterprise and is designed for enterprise applications that run on servers. J2EE provides APIs that let developers create workflows and make use of resources such as databases or web services.

J2EE

CURRICULUM

① Basics of a Web application

What is a web application?

What is a web client and web server?

How do client and server communicate?

HTTP protocol basics

HTML language basics

What is a TCP/IP port, URL?

Need for a Web Container

② Web Container and Web Application Project Set up

To set up Tomcat Container on a machine

To set up a Servlets JSP project in Eclipse

To configure dependency of Servlet JSP APIs

Web application project structure

③ Servlets

What are Servlets?

What can they do? Why are they needed?

How do Servlets look in code?

HTTP Methods; GET, POST, PUT, DELETE, TRACE, OPTIONS

GET/POST request; differences between the two

Servlet Lifecycle

Servlet Context and Servlet Config

Forwarding and Redirection of requests

4

Session Management

What is a session?

Why is it required?

How to get a session?

Session information passing between client and server

Session information passing mechanisms -

Cookies, Rewriting

How to destroy a session

5

JSPs

Introduction to JSP and need for JSPs

Basic HTML tags

JSP Lifecycle

6

JSP Elements

Scriptlets

Expressions
Declarations
Significance of above elements and fitment
into the JSP Lifecycle
What are Directives in JSP?
Page Directive
Include Directives
Taglib Directive

7 JSP Tag library

JSP Standard Actions
Expression Language
JSTL basics and it's usage
Need for Custom Tag Library
Custom Tag Library implementation



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