

ADVANCED JAVA Syllabus: Servlets and JSPs.

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 Directive

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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