

Servlets and JSP Content:

1. Introduction and Overview

- Web servers
- Web client
- Clients and Server
- Html introduction
- Http protocol
- Why to use Servlets and JSP?

2. Web application Architecture

- Containers
- Deployment Descriptor

3. Introduction MVC architecture

4. Servlets Basics

- Servlet Class hierarchy
- Creating First Servlet
- Servlet Life cycle
- Loading, initializing and Servicing the request
- Handling different types of request like Get, Post...etc
- ServletConfig and Servlet Initparameters
- Servlet Context and Context parameters
- ServletRequest and ServletResponse objects
- Writing different contents to Response object and setting Response headers
- Request parameters
- Request dispatcher (Communication between two servlets)
- Send Redirect

5. Session management

- HttpSession
- Cookies
- URL rewriting

- Hidden parameters

6. **Listeners**

- Request Listeners
- Context Listeners
- Session Listeners

7. **Filters**

- Filter Lifecycle
- Configuring Filters

8. **JSP introduction**

- Why to use JSPs?
- JSP Architecture
- JSP lifecycle
- JSP implicit objects

9. **JSP Syntax**

- JSP Scriptlets
- JSP Declarations
- JSP Expression
- JSP Directives
- JSP Action tags
- JSP Bean tags and using Beans in JSP

10. **JSTL and Tag library**

11. **Custom tag development**

12. **Servers**

- Tomcat
- WebSphere

13. **Database**

- Oracle

14. Web Application Deployment

15. Web Application Security

16. Project using Servlets and JSP

- This Project objective is to display employees, search employee, create employee and Delete employee using MVC architecture in Servlets and JSP.