



JEE Syllabus

Advanced Java (Servlets)

1) Introduction to Servlets

- What is Servlet
- Servlet Architecture.
- Two tier, three tier and N-tier Arch.
- Client and Server side Components and their relation
- Introduction to CGI and its limitations
- Introducing Java Servlet API for Dynamic Web Apps

2) Servlet Lifecycle and Web Container

- Servlet Container and its Roles
- Converting a normal java class into Servlet implementing Servlet interface.
- Understanding Life Cycle of a Servlet
- Servlet Initialization using init() method
- Request Processing using Service() method

3) Servlet Configuration using Web.xml

- Servlet Container and its Roles
- How Web Container read information from Web.xml
- How to declare configuration file for an application
- Declaration of and tags
- Understanding ServletRequest and ServletResponse object

4) Exploring methods of Request and Response

- Explaining all methods of ServletRequest and ServletResponse Interfaces
- How to use ServletRequest and ServletResponse Object to process a Request
- Exploring ServletResponse Object and its usage

5) Using Servlet API interfaces and classes



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- Servlet Interface
- GenericServlet abstract class
- Using methods provided by GenericServlet
- A sample demo application tracking client information

6) Formatting a request parameter and getting on server side

- GET request format supported by HTTP protocol
- How to send parameters with GET request
- Formatting a QueryString

7) Processing Request parameter using request.getParameter()

- Processing Request Parameters on Server side
- Using request.getParameter()

8) Dispatching Request to other servlet

- RequestDispatcher Object
- Dispatching request by Include() method
- Dispatching request by forward() method

9) Setting Request attributes and getting requestAttributes

- Abstracting Service() method in doGet() and doPost()
- Setting Request attribute
- Getting request attribute on other resource
- Using request.getAttribute() and request.setAttribute()

10) Redirecting request to some static resource with Servlets

- Using request.sendRedirect() method
- Difference between RequestDispatcher and SendRedirect()
- When to use which method

11) Session Management

- What is Session?
- Why to track Session?



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- Session Tracking: URL Rewriting
- Session Tracking: Cookies
- Session Tracking: Hidden Forms
- HttpSession Object and its working
- Session Tracking: HttpSession
- Advantages and Disadvantages of Various Session Management Technics
- Complete Demo Application describing Session Management

12) Servlet Filters

- What and Why Filters?
- Exploring Servlet Filter API
- The Filter Interface
- The FilterChain Interface
- The FilterConfig Interface
- Working with Filters and Servlets
- Filtering Requests and Responses using Demo Application

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