

## **Servlets**

### **Lesson2: Working with WildFly 8.x**

- 1) Discuss standalone.xml – (whatever is covered in syllabus)
- 2) WildFly server – App Server

### **Lesson3: Introduction to Servlets API 3.0 and Ease of Development through Annotations**

- 3) Discuss @WebServlet with multiple url pattern, @MultipartConfig annotation
- 4) Servlet life cycle(service, doGet and doPost method)
- 5) Discuss - Web Container a
- 6) Servlet Context Listener- how do you implement
- 7) Diff between config and context & all methods mentioned in book

### **Lesson 4:The Request object & Lesson 5:The Response object**

- 1) Discuss all the request object methods with their return types,
- 2) Request Headers along with the method signature.
- 3) How will you refresh the page using headers
- 4) Client pull concept
- 5) Discuss all the response object methods with their return types.
- 6) Discuss all the response headers, methods for setting response headers, query string and how to retrieve
- 7) Discuss – status codes

### **Lesson 6: Configuring databases in WildFly**

- 1) Discuss @Resource annotation

### **Lesson 7:Inter-servlet Communication**

- 1) In interservlet communication the http method will be same as the invoking servlet (same request is passed)
- 2) Difference between req.getRequestDispatcher and context.getRequestDispatcher(which should begin with "/")
- 3) Diff between sendRedirect and forward methods of response and requestdispatcher
- 4) Discuss - ServletContext interface which helps us to communicate with the servlet container, sharing of data between Servlets, etc
- 5) How to obtain getServletContext() – discuss all the possible ways
- 6) Discuss – How to attach the query string to the path
- 7) Discuss – RequestDispatcher's forward() and include() method with code

### **Lesson 8: Session Tracking**

- 1) How will you get the HTTP method?
- 2) How will set the session timeout using xml and using code (discuss about the minutes/seconds)
- 3) How will you get the session object what is the difference between getSession(true) getSession(false)
- 4) Session.invalidate() and IllegalStateException discuss
- 5) All points about cookies, hidden form (works only for a sequence of dynamically generated forms), session api (how to retrieve the session object)

- 6) How will you create cookie, store cookie, add cookie and read cookie (which interfaces are used) discuss the getcookies method, maximum cookie size, methods used to keep the cookie alive
- 7) Discuss – all the methods and points regarding cookies

## **JSP**

### **Lesson 2 : Writing Java Server Page**

- 1) Discuss -Jsp life cycle & processing scenarios
- 2) Which life cycle methods cannot be overridden
- 3) Jsp comments vs HTML comments-discuss

### **Lesson 3 : JSP Scripting Elements**

- 1) Discuss all the JSP scripting elements i.e. expression, declaration and scriptlets along with syntax and when it is evaluated and also check the sample code snippets
- 2) Discuss all the JSP Implicit objects
- 3) Discuss all implicit objects . when will the exception implicit object be enabled?
- 4) How to disable the scriptlets
- 5) How will you declare a instance variable and local variable  
Ans <%! Int k ; %> and <% int k ; %>
- 6) How will you declare a method in jsp? (declarative tag)
- 7) How will you disable the session object in JSP
- 8) Is exception object enabled by default
- 9) Which attribute of page directive can be used multiple times

### **Lesson 4 : JSP Directives**

- 1) Discuss Page directive and all its attributes
- 2) ,include directive with its attributes (types of files that can be included, include process-static, and in which phase it is included) a
- 3) What is the use of taglib directive ? discuss the syntax and attributes
- 4) Discuss isErrorPage and errorPage attribute of page directive
- 5) Which attributes of page directive takes Boolean value?
- 6) What is the use of contentType attribute of page directive
- 7) Which attribute of page directive can be repeated (import)
- 8) What will happen if session attribute of page is set to false?
- 9) What is the use of contentType attribute of page directive

### **Lesson 5 : JSP Action**

- 1) [%@include file="header.jsp" %](#)- recap of syntax
- 2) <jsp:forward page="shopcart.jsp">
  - a. <jsp:param value='<%= request.getParameter("category") %>' name="mcategory"/>
  - b. </jsp:forward>
- 3) <jsp:include page="names.jsp" >
 

```
<jsp:param name="fruit" value="apple" />
</jsp:include>
i. ---
ii. <%= request.getParameter("fruit") %>
```
- 4) <jsp:useBean id="employee" class="com.cg.emp.dto.EmployeeDTO " scope="request"/>
  - a. <jsp:getProperty property="...." name="....."/> <jsp:setProperty ....> discuss

- 5) Discuss bean scopes, bean processing tags
- 6) Diff between include directive and include action

#### **Lesson 6 : JSP Configuration in web.xml**

- 1) property groups include-prelude, include-coda, etc and where it is declared
- 2) discuss - <jsp-config> tag in web.xml
- 3) Enable/Disable of JSP expression language (JSP EL) evaluation.
- 4) Enable/Disable of Scripting elements.

#### **Lesson 7 : JSP Standard Tag Library (JSTL) and EL**

- 1) Jstl- set and out tags, foreach discuss with example (discuss all attributes)
- 2) Discuss EL expressions

### **Developer WorkBench**

#### **Lesson 1: Introduction to Maven and Benefits**

- 1) Discuss the significance of pom.xml and

#### **Lesson 2: Maven Basics**

- 1) Discuss Maven build life cycle phases
- 2) Discuss –Maven repository and the order of repository invocation like (pom, local and remote) – Also refer Maven Principles notes page from Lesson 1 and Repositories from Lesson 2
- 3) Discuss all the coordinates used to identify an artifact (Refer repositories)

#### **Lesson 3: Getting started with Maven**

- 1) Discuss the maven set up using the environment variables (Refer Maven Installation and setup slide)
- 2) Discuss all the maven commands like mvn compile, mvn clean, mvn site, mvn package, mvn build, etc

#### **Lesson 4: Creating applications using Maven in Eclipse Luna**

- 1) Discuss Maven plugins like Surefire, Failsafe, junit, etc (Refer testing your application)
- 2)

#### **Lesson 5: PMD Tool**

- 1) Discuss all the points regarding PMD and why PMD, PMD report generation format, severity levels