



```
744         } else {
745             json['sort_order'] = $quotes['error'];
746         }
747     }
748 }
749 $sort_order = array();
750
751 foreach ($quotes as $key => $value) {
752     $sort_order[$key] = $value['sort_order'];
753 }
754
755 array_multisort($sort_order, SORT_ASC, $quotes);
756
757 $this->session->data['lpa']['shipping_methods'] = $quotes;
758 $this->session->data['lpa']['address'] = $address;
759
760 if (empty($quotes)) {
761     $json['error'] = $this->language->get('
762         error_no_shipping_methods');
763 } else {
764     $json['quotes'] = $quotes;
765 }
766
767 if (isset($this->session->data['lpa']['shipping_method']) &&
768     empty($this->session->data['lpa']['shipping_method']) &&
769     isset($this->session->data['lpa']['shipping_method']['code'])) {
770     $json['selected'] = $this->session->data['lpa']['
771         shipping_method']['code'];
772 } else {
773     $json['selected'] = '';
774 }
775 } else {
776     $json['error'] = $this->language->get('error_shipping_methods');
777 }
778
779 $this->response->addHeader('Content-Type: application/json');
```

JSP (Java Server Pages) - Course Syllabus

Topics covered

1. Introduction to Web
2. Introduction to JSP
3. Directory Structure
4. Lifecycle JSP
5. Scripting Elements - part 1
6. Scripting Elements - part 2
7. Scripting Elements - part 3
8. Implicit Object Request
9. Implicit Project - part 1
10. Implicit Project - part 2
11. Implicit Project (Login) - part 3
12. Implicit Project (Reg) - part 4
13. Implicit Project - part 5

14. Implicit Project (Output) - part 6
15. Directives Page - part 1
16. Directive Page - part 2
17. Directive Include - part 1
18. Directive Include - part 2
19. JSP Action Tag - Usebean - part 1
20. JSP Action Tag - Usebean - part 2
21. JSP Action Tag - Usebean - part 3
22. JSP - Include Action Tag - part 1
23. JSP - Include Action - part 2
24. JSP - Forward Action - part 1
25. JSP - Forward Action - part 2
26. Expression Language - part 1
27. Expression Language (Param) - part 2
28. Expression Language - part 3
29. Expression Language (RequestScope) - part 4
30. Java Bean using Expression Language - part 1
31. Java Bean using Expression Language - part 2
32. Java Bean using Expression Language - part 3
33. JSTL Core - part 1
34. JSTL Core - part 2
35. JSTL Core (URL) - part 3
36. JSTL SQL - part 1
37. JSTL SQL (Update) - part 2
38. JSTL SQL Update - part 3
39. SQL Param
40. JSTL - Function - part 1
41. JSTL - Function - part 2
42. JSTL - Function - part 3
43. MVC in JSP - part 1

44. MVC in JSP - part 2

Detailed-level list of topics covered

1. Web Applications

- Server-Side Programming
- Web Protocols and Web Applications
- Role of Web Servers
- Java Servlets
- Using Tomcat Web server
- Structure of a Java Servlet

2. Servlets Architecture

- Servlets Architecture
- Servlet and HttpServlet
- Request and Response
- Reading Request Parameters
- Producing an HTML Response
- Redirecting the Web Server
- Deployment Descriptors
- Servlets Life Cycle
- Relationship to the Container

3. Interactive Web Applications

- Building an HTML Interface
- HTML Forms
- Handling Form Input
- Application Architecture
- Single-Servlet Model
- Multiple-Servlet Model
- Routing Servlet Model
- Template Parsers

4. Session Management

- Managing Client State
- Sessions
- Session Implementations
- HttpSession
- Session Attributes
- Session Events
- Invalidating Sessions

5. Configuration and Context

- The Need for Configuration
- Initialization Parameters
- Properties Files
- JNDI and the Component Environment
- JDBC Data Sources
- Working with XML Data

6. Filters

- Servlet Filters
- Uses for Filters
- Building a Filter
- Filter Configuration and Context
- Filter Chains
- Deploying Filters

7. Database and SQL Fundamentals

- Relational Databases and SQL
- SQL Versions and Code Portability
- Database, Schema, Tables, Columns and Rows
- DDL - Creating and Managing Database Objects
- DML - Retrieving and Managing Data
- Sequences
- Stored Procedures
- Result Sets and Cursors

- Using SQL Terminals

8. JDBC Fundamentals

- What is the JDBC API?
- JDBC Drivers
- Making a Connection
- Creating and Executing a Statement
- Retrieving Values from a ResultSet
- SQL and Java Datatypes
- SQL NULL Versus Java null
- Creating and Updating Tables
- Handling SQL Exceptions and Proper Cleanup
- Handling SQLWarning

9. Advanced JDBC

- SQL Escape Syntax
- Using Prepared Statements
- Using Callable Statements
- Scrollable Result Sets
- Updatable Result Sets
- Transactions
- Commits, Rollbacks, and Savepoints
- Batch Processing
- Alternatives to JDBC

10. Introduction to Row Sets

- Row Sets in GUI and J2EE programming
- Advantages of RowSets
- RowSet Specializations
- Using CachedRowSets

11. JSP Architecture

- JSP Containers
- Servlet Architecture

- Page Translation
- Types of JSP Content
- Directives
- Content Type
- Buffering
- Scripting Elements
- JSP Expressions
- Standard Actions
- Custom Actions and JSTL
- Objects and Scopes
- Implicit Objects
- JSP Lifecycle

12. Scripting Elements

- Translation of Template Content
- Scriptlets
- Expressions
- Declarations
- Dos and Don'ts
- Implicit Objects for Scriptlets
- The request Object
- The response Object
- The out Object

13. Interactive JSP Applications

- HTML Forms
- Reading CGI Parameters
- JSPs and Java Classes
- Error Handling
- Session Management
- The Session API
- Cookies and JSP

14. Using JavaBeans

- Separating Presentation and Business Logic
- JSP Actions
- JavaBeans
- Working with Properties
- <jsp:useBean>
- <jsp:getProperty> and <jsp:setProperty>
- Using Form Parameters with Beans
- Objects and Scopes
- Working with Vectors

15. The Expression Language and the JSTL

- Going Scriptless
- The JSP Expression Language
- EL Syntax
- Type Coercio
- Error Handling
- Implicit Objects for EL
- The JSP Standard Tag Library
- Role of JSTL
- The Core Actions
- Using Beans with JSTL
- The Formatting Actions
- Scripts vs. EL/JSTL

16. Advanced JSP Features

- Web Components
- Forwarding
- Inclusion
- Passing Parameters
- Custom Tag Libraries
- Tag Library Architecture

- Implementing in Java or JSP
- Threads
- Strategies for Thread Safety
- XML and JSP

17. JSP for Web Services