

MCS-051

Suggestion

By

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Book 3

- What is the need of web security ? Explain data integrity and system integrity in the context of web security. (Page - 8)
- Explain HTTP basic authentication and HTTPS Client Authentication with the help of an example program. (page - 12)
- Explain briefly, the different types of system vulnerabilities.(page – 20 check progress)
- What is SSL? Explain SSL encryption and Handshake mechanism. (Page - 28)
- What is JNDI authentication ? Explain with the help of an example. (Page - 41)

Book 1

1. Servlet

2. JDBC

3. JSP

Unit 1 (Servlet)

- Generic servlet vs. HTTP servlet, doPost() vs. doGet() page - 8
- Servlet Life cycle with example program (page – 9,11) ****
- How to connect JDBC with Servlet with example program (page - 20)
- Difference between GET and POST (page – 24 check progress)
- Difference Between Session and cookie (page – 24 check progress)
- Servlet chaining vs. servlet engine?
- **Servlet context Vs. Servlet config**
- Handling Cookies and a Session in a Java Servlet
- Write a servlet program to fetch and display all the fields of an Account table with field name, account_no., address and balance. (this just an example program)

Unit 2 (JDBC)

- JDBC vs. ODBC (page – 33)
- Types of JDBC statements and their purpose (page - 35)
- Types of JDBC drivers(page - 36)
- **Write a code fragment showing how to use JDBC to query and modify a database.** (Page 41, 43)

Unit 3 (JSP)

- Scripting Element in JSP (Page - 58)
- Explain Scriplets with example (page - 59)
- What are the limitations of JSP ? How can the integration of JSP - and servlet overcome these limitations ?
- What is custom tag in JSP ? What are the components that make up a tag library in JSP ? (page – 69 check progress)
- Write a JSP program to display current date and time.
- Briefly explain JSP implicit objects. (page - 64)
- **What are the limitations of JSP ? How can the integration of JSP - and servlet overcome these limitations ?**

Book 2

Java Beans

- What is Java Bean? (page - 7)
- What is EJB? (Page - 9)
- Architecture of EJB with diagram (page 10 or 26)
- Advantages of EJB Architecture (Page – 28)
- What is the difference between stateless and stateful session beans ?
- Life cycle of stateless and stateful session beans. (Page – 13,14)
- Entity Beans and it's life cycle.
- What is the purpose of message-driven beans ? Explain the various circumstances under which a message-driven bean should be used. (Page – 18)
- Java beans vs. Enterprise java Beans.
- What is the advantage of using Entity beans over directly using JDBC APIs for database connectivity ? (Page – 19 check progress)

Java Beans

- What are the services offered by EJB (page - 30)
- What are the restriction on EJB? (Page – 31)
- Session Beans vs. Entity Beans (page 33)
- Explain two interfaces associated with EJB class files.(Page – 59 check progress)

XML

- HTML vs. XML(page - 64)
- SGML vs. XML(Page – 66)
- XML design and development goals (page 68)
- What is an XML parser ? What are the types ? Briefly explain. (Page - 74)
- XML Entities and it's types.
- What is DTD? Why do we use it? Explain the different components of DTD?

XML

➤ XML example question type

A bank account has the following attributes :

- i. Account number (mandatory)**
- ii. Customer_id (can be multiple)**
- iii. First name (mandatory)**
- iv. Middle name (optional)**
- v. Last name (optional)**
- vi. Account type (mandatory)**
- vii. Balance (mandatory)**

Write an XML DTD to describe the bank account.