

→ Collection Framework

- The Collection Interface(List,Set,Sorted Set).
- The Collection Classes. (ArrayList,Linked List,HashSet,TreeSet)
- Accessing a Collection via Iterator.
- Working With Map.
- Working with Comparable and Comparator.
- The Collection Algorithms.
- The Legacy classes (Enumeration,Vector,Stack,Dictionary,HashTable).
- Date and Time Handling.

→ Generic Framework

- Why use Generic.
- Generic Types
 - Raw Types,Erasure
- Bounded Type Parameter.
 - Generic Methods and Bounded Type Parameters.
- Generic ,Inheritance,and Subtypes.
- Type Interface.
- WildCard
 - Upper Bounded WildCard
 - Unbounded WildCard
 - Lower Bounded WildCard.

→ Internationalization

- Introduction.
- Setting the Locale.
- Isolating Locale-Specific Data.
- Formating.
- Working with Text.
- Internationalization of Network Resources.

→ **JDBC (Java Database Connectivity)**

- Introduction.
- Getting Started
- Processing SQL Statements with JDBC.
- Establishing a Connection.
- Connecting with DataSource Objects.
- Handling SQLExceptions.
- Setting Up Tables.
- Retrieving and Modifying Values from Result Sets.
- Using Prepared Statements.
- Using Transactions.
- Using RowSet Objects.
- Using JdbcRowSet Objects.
- Using CachedRowSetObjects.
- Using JoinRowSet Objects.
- Using FilteredRowSet Objects.
- Using WebRowSet Objects.
- Using Advanced Data Types.
- Using Large Objects.
- Using SQLXML Objects.
- Using Array Objects.
- Using DISTINCT Data Type.
- Using Structured Objects.
- Using Customized Type Mappings.
- Using Datalink Objects.
- Using RowId Objects.
- Using Stored Procedures.
- Using JDBC with GUI AP.

→ **Web Fundamentals**

- HTTP Protocol.
- HTTP Headers.
- GET & Post Methods.
- Web Client.
- Web Server.
- Web Container.
- Web Component.
- Servlet & JSP Engine.

→ **Server Programming using Servlets**

- Servlets Architecture.
- Servlet lifecycle.
- Servlet interface.
- GenericServlet & HttpServlet.
- Writing your own Servlet.
- Packaging and Deploying a Servlet.
- Servlet & DB connectivity.

→ **Servlet Collaboration**

- Forwarding & Redirecting from a Servlet.
- ServletContext & ServletConfig.
- Maintaining Sessions Hidden Form Fields, Cookies, URL rewriting, HttpSession.
- Filters and Listeners.

→ **Java Server Pages (JSP)**

- Need of JSP.
- Directives.
- Scripting Elements.
- Standard Actions Custom Tag.
- Implicit Objects.
- Scopes JSTL
Types of JSTL
Core,Sql,Xml
- Expression Language.

→ **Struts 2.x**

- Introduction.
- Why use Struts.
- Advantage.
- Difference between Struts 1.2,1.3.2.x.

→ **Remote Method Invocation (RMI)**

- Introduction.
- Architecture.
- File Handling.
- Database connection.
- Chat Server.
- Callback Mechanism.

→ **Enterprise Java Beans 3.x (EJB)**

- Java Persistence API.
- Introduction.
- Architecture.
- Type of EJB.
- Session Bean.
 - Introduction
 - State management
 - Types
 - Stateless
 - Statefull
- Entity Beans
 - Introduction
 - Persistence
 - Life Cycle
 - Types

→ **Container Managed Persistent(CMP)**

- Introduction.
- Primary key Class.
- EJB Methods.
- EJB QL.

→ **Bean Managed Persistent(BMP)**

- Introduction.
- Implementation.
- Ejb Relationship.

→ **Message Driven Beans**

- Messaging Overview.
- Messaging Models.
 - Point to pint Model
 - Topic Subscriber Model
- JMS Implementation.

→ **Java Persistence API (JPA)**

- The Application.
- The Entities.
- The Class Definition .
- Persistent Fields and Properties.
- Entity Identity.
- Relationships.

- Inheritance and Polymorphism.
- Operations on Entities.
- Transactions .
- Queries .
- Testing Entities Outside of the EJB Container.

→ **XML**

- Introduction.
- CSS.
- Schema.
- DOM.
- XSLT.
- SAX.

→ **Web Services**

- A Conceptual Overview.
- Web Services Requirement.
- SOAP.
- UDDI.

→ **Java Mail API**

- Introducing the JavaMail API.
- Reviewing Related Protocols.
 - SMTP.
 - POP.
 - IMAP.
 - MIME.
 - NNTP and Others.
- Installing.
 - Installing the JavaBeans Activation Framework.
 - Using with the Java 2 Enterprise Edition.
- Reviewing the Core Classes.
 - Session.
 - Message.
 - Address.
 - Authenticator.
 - Transport.
 - Store and Folder
 - Moving On
- Using the JavaMail API
 - Sending Messages.
 - Fetching Messages.
 - Deleting Messages and Flags.

JAVA EE

- Authenticating Yourself.
- Replying to Messages.
- Forwarding Messages.
- Working with Attachments.
 - Sending Attachments
 - Getting Attachments.
- Processing HTML Messages
 - Sending HTML Messages
 - Including Images with Your Messages.

→ **Weblogic and Glassfish Application Server.**

→ **Eclipse Integrated Development Environment.**



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