



Certificate Course
ADVANCE JAVA

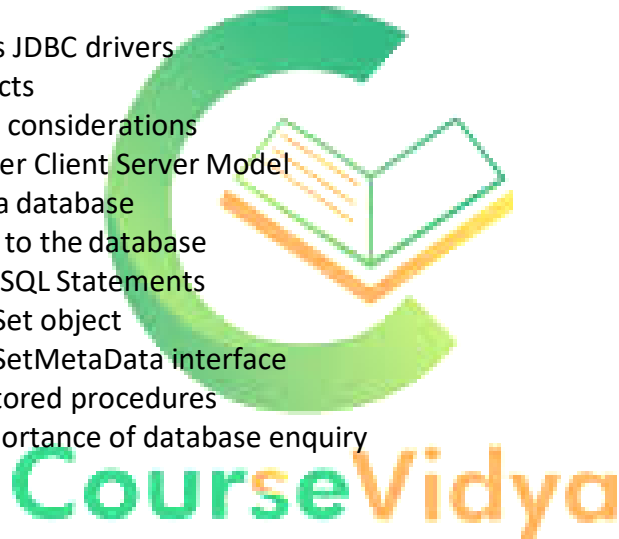
Course Contents

Swing Programming

- Understand difference between Swing and AWT programming
- Define Swing components
- List Swing Packages
- List the sub-classes of the JComponent class
 - Explain how swing handles events
- Use JFC to write swing applets
- Understand the concept of "Look and Feel"

Java Database Connectivity

- Define JDBC API
- Describe the various JDBC drivers
- Identify JDBC products
- Outline JDBC design considerations
- Describe the Two-Tier Client Server Model
- Use JDBC to access a database
- Set up a connection to the database
- Create and execute SQL Statements
- Describe the ResultSet object
- Describe the ResultSetMetaData interface
- Define and create stored procedures
- Understand the importance of database enquiry



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Network Programming

- Understand how the internet works
- Explain Client/Server computing
- Describe the classes of the java.net package

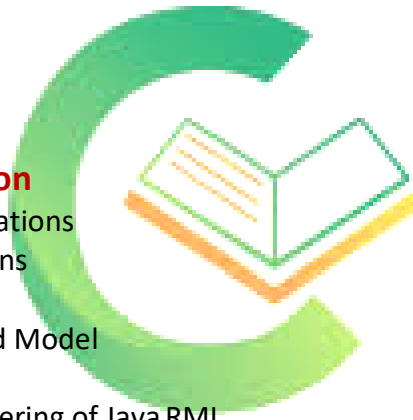
Describe Java's Web-related classes

Input/Output Stream

- Java I/O Classes and Interfaces
- File
 - Directories
 - Using Filename Filter
 - The listFiles() Alternative
 - Creating Directories
- The Stream Classes
- The Byte Streams
- The Character Streams
- Using Stream I/O
- Serialization

Remote Method Invocation

- Describe distributed Applications
- Build distributed Applications
- Define RMI
- Outline the Java Distributed Model
- List the java.rmi packages
- Explain the three-tiered layering of Java RMI
- Implement RMI on a Remote and Local Host
- Describe Remote Objects



Inner classes, Sockets, Web connectivity, Security

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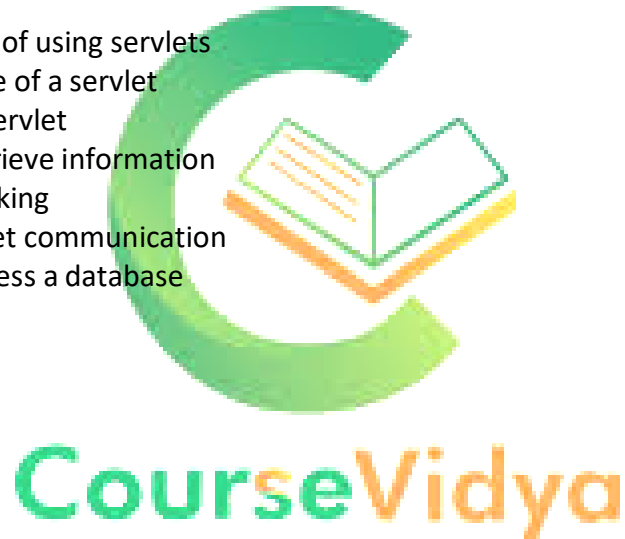
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Java Beans

- Define JavaBeans
- Describe the Software Component Model
- Understand BDK(Bean Development Kit)
- List the tools for bean development
- Create your own bean
- Describe CustomBean properties and events
- Understand Introspection Reports
- Implement various types of properties
- Describe event listeners
- List the benefits of using JavaBeans

Servlets

- Define a Servlet
- Compile Servlets
- List the advantages of using servlets
- Explain the life cycle of a servlet
- Describe an HTTP Servlet
- Use a servlet to retrieve information
- Define Session Tracking
- Describe InterServlet communication
- Use a servlet to access a database



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