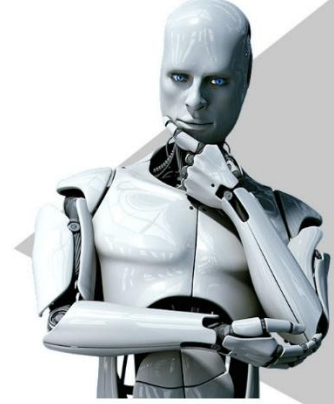


# STUCORNER

Development | Training | Consultancy

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## JAVA

**Java** is a programming language. It was first developed by James Gosling at Sun Microsystems, which is now a part of Oracle Corporation. It was released in 1995 as a part of Sun Microsystems' Java platform. The language has developed much of its syntax from C and C++. Java applications are usually compiled to bytecode (class file) that can run on any Java Virtual Machine (JVM). Java is currently one of the most popular programming languages being used. It has about 10 million users

### Collection Framework

- The Collection Interface (List, Set, Sorted Set).
- The Collection Classes. ( Array List , Linked List , Hash Set , Tree Set)
- Accessing a Collection via Iterator.
- Working With Map.
- Working with Comparable and Comparator.
- The Collection Algorithms.
- The Legacy classes (Enumeration, Vector, Stack, Dictionary, Hash Table).
- 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.
- Wild Card
- Upper Bounded Wild Card
- Unbounded Wild Card
- Lower Bounded Wild Card.



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## Internationalization

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

## 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 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.

## JAVA EE



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## 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

## 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.

## JAVA EE

### Enterprise Java Beans 3.x (EJB)

- Java Persistence API.
- Introduction.
- Architecture.
- Type of EJB.
- Session Bean.



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- 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.

## JAVA EE

### 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.



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- XSLT.
- SAX.

## JAVA EE

### 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.

### Web Services

- A Conceptual Overview.
- Web Services Requirement.
- SOAP.
- UDDI.
- Authenticating Yourself.
- Replying to Messages.
- Forwarding Messages.
- Working with Attachments.
- Sending Attachments
- Getting Attachments.
- Processing HTML Messages
- Including Images with Your Messages.
- Sending HTML Messages

**Web logic and Glassfish Application Server.  
Eclipse Integrated Development Environment.**



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