J2EE:

Java Enterprise Edition (Java EE), erst Java a pair of Platform, Enterprise Edition (J2EE), presently rebranded as Djakarta technology, may be a set of specifications, extending Java SE8 with specifications for enterprise options like distributed computing and internet services.

Java technology is outlined by its specification. The specification defines genus Apis (application programming interface) and their interactions. Like alternative Java Community method specifications, suppliers should meet sure correspondence necessities so as to declare their merchandise as Java technology compliant

Java technology includes many specifications that serve completely different functions, like generating web content, reading and writing from an information during a transactional approach, managing distributed queues.

The Java technology genus Apis embody many technologies that reach the practicality of the bottom Java SE genus Apis, like Enterprise JavaBeans, connectors, servlets, Java Server Pages and several other internet service technologies.

Course Content:

JDBC:

- Introduction to ODBC, JDBC & Types of Drivers

- JDBC API & Database Connection

- Types of Statements & Other API's of Java

- JDBC 2.0 Result Set Extensions

- SERVLET

- Introduction to Web Server, C/S Arch, Server Side Scripting

- Servlet API, Life Cycle of Servlet, Html Forms SSI, Session

- Tracking, Servlet Chaining

- JDBC with Servlets APPLET Servlet Communication

XML:

- Introduction to B2B, B2C & XML

- DTD & Basic XML Tags

- XML Schema

- DOM & DSO

- Name Space & Schemas

- XSL, CSS & XLL, XPath

EJB:

- Introduction to EJB & Enterprise Computing

- Building business tier using EJB For a web application(Struts)

- WebLogic containers & Server Services

- Types of Beans & Functionalities

- Introduction to Session Bean

- Developing & Deploying Stateless & State full Session Bean

- Introduction to Entity Beans

- Developing & Deploying Entity Beans

- Entity Bean Relationships

- Message Driven Beans & Deployment

- Transaction Management (BMT and CMT)

J2EE:

- Introduction to J2EE & Distributed Architecture

- Servlets, JSP & Integration of EJB with J2EE

- JMS, JNDI, POOLING, JTS JMS JNDI

- JTS, Java-Mail

- Pooling Services and Enterprise Computing

SPRINGS:

- IOC Container

- Dependency Injection

- Aspect oriented programming

- Spring JDBC

- Spring MVC

- Integration with Hibernate

- Integration with EJB

- Working with Scheduler Framework Quartz

- Working with Reporting Tool Jasper Reports

HIBERNATE:

- Introduction to object relational mapping

- Hibernate architecture

- Hibernate configuration file,

- Hibernate mapping file

- Session Factory

- Session

- Query

- Transaction

- Mapping java persistence class in hibernate

- HQL

- Criteria API

- Hibernate tools

CORE J2EE Design Patterns:

- Front controller

- Data Access Object (DAO)

- Business Delegate

- Model View Controller

- service locator

- View helper

- Value Object

- Session Façade

- Composite View

RMI:

- Introduction to RMI

- Layers of RMI with Architecture, RMI with JDBC

- Packages & Exception Handling in RMI

JSP:

- Introduction to JSP Architecture, Basic Tags

- Page Directives, Scripting Elements, Bean Tags

- Implicit Objects, JDBC with JSP, Servlets with JSP

- Custom Tag Libraries

- MVC Architecture (MVC 1 and MVC2)

- Security in Web Applications

- Presentation Tier Design Patterns

WEBLOGIC:

- Introduction to APP Servers & WebLogic Administration and Configuring

- Deployment & Recourse Handling

- Configuring Connection Pooling

- Messaging Services

STRUTS:

- Model-View-Controller Design Pattern

- Model Components

- View Components

- Controller Components

- Advanced Action Classes

- Exception Handling in Struts

- Internationalization of Web Applications

- Tag Libraries

- Validation Framework

- Tiles Framework

- STRUTS Configuration File

- Web Application Descriptor File

AJAX:

- HTTP Basics

- JAVASCRIPT Basics

- Hidden frame technique For sending Asynchronous Requests

- I frames

- AJAX Basics

- AJAX Communication techniques

- AJAX Patterns

- XML Basics

- XML , XSLT and XPATH

- Syndication with RSS /ATOM

- AJAX Framework DWR(direct web remoting)

- Design pattern

- Introduction to patterns

- Core OO design patterns

- Observer

- Decorator

- Factory

- Singleton

- Adapter and Façade

- JAVA Development Tools

- ANT

- XDoclet

- Jasper Reports and IReport

- CVS

- LOG4J

- My Eclipse IDE

- JUNIT

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