Java 2 Platform Enterprise Edition (J2EE)
for Building Web-Based Enterprise Applications

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Integration of software technologies that support the Web, networking, and database connectivity is becoming critical. Java 2 Platform, Enterprise Edition (J2EE) offers a set of Java-based enterprise technologies for developing Web-based enterprise application systems that cross the boundaries of different hardware platforms, and different networking and operating systems.

J2EE offers “Write Once, Run Anywhere” platform, and takes advantage of JDBC API for database access, CORBA technology for interaction with existing enterprise resources, a security model that protects data in Internet applications. Building on this foundation, J2EE offers Enterprise JavaBeans(EJB), JavaBeans, Java Servlets API, and JavaServer Pages (JSP) technology. Enterprise JavaBeans and JavaBeans are Java-based component technologies that provide a universal integration and enabling technology for component-based development of Web-based enterprise applications.

The J2EE standard includes complete specifications and compliance tests to ensure portability of applications across a wide range of existing enterprise systems capable of supporting J2EE. HTTP, the Java language, and threads support enterprise Java-based technologies. The set of Java-based technologies for developing Web-based enterprise application include:

- Java Database Connectivity (JDBC)
- Java Naming and Directory (JNDI)
- Servlets
- JavaServer Pages (JSPs)
- Remote Method Invocation (RMI)
- Enterprise JavaBeans (EJB)
- JavaBeans
- Java Messaging Service (JMS)

Gilda Pour has over thirteen years of industrial, R&D, and consulting experience in object-oriented, component-based and agent-oriented enterprise software engineering, and Web-based enterprise application development as a senior software engineer, technical leader/manager, researcher, and consultant with Hewlett-Packard R&D Laboratories, NASA Ames Research Center, Software Engineering Research Center, Rome Laboratory/Air Force, Sun Microsystems Inc., Hitachi, and IBM. Dr. Pour is a professor of software and information engineering at San Jose State University. She has published extensively and lectured on related topics in both academia and industry. She has also delivered tutorials at international conferences including TOOLS Conference Series (TOOLS USA, TOOLS Europe, and TOOLS Asia) and WebNet. She has been serving as Workshops and Panels Chair for the TOOLS USA Conference since 1999. In addition, she has served as Conference Program Chair and Tutorial Chair for other TOOLS Conferences. Gilda Pour has been the co/organizer of several international workshops at TOOLS USA, TOOLS Europe, TOOLS Asia, and OOPSLA.