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CS 1410

7:00 – 9:50

**Assignment 1**

**J2ME:** J2ME stands for Java 2 Micro Edition this is used to create programs and applications for wireless and mobile devices. J2ME has a configurations component and a profiles component.

The configurations component provides a set of libraries and a virtual machine for wireless devices. The profiles component for J2ME provides one profile for fixed wireless devices and the one is for mobile wireless devices.

**J2SE:** J2SE is short for Java 2 Standard Edition which is the basic and commonly used platform for Java programming. It is used to execute applications for general use. J2SE consists of a virtual machine which is used to run the Java programs as well as a set of libraries or packages which allow the use of file systems, networks, and graphic interfaces.

**J2EE:** J2EE stands for Java 2 Enterprise Edition, this provides an environment centered on Java that is independent of platforms. This is used to build, develop and implement web-based business applications. J2EE has a set of services, applications, program interfaces, and protocols that provide the programmers with the ability to produce multi-level internet-based applications.

At the customer user level J2EE supports pure HTML as well as Java applications which rely on Java server pages to create HTML or other formatted data for the customer. Enterprise JavaBeans is where the logic is stored, and it provides threading, concurrency memory management and security which is transparent to the author. Java interface connectivity is the standard interface for the Java databases. The Java server pages allows for improved consistency between developers without requiring a graphic user interface.

**JavaFX:** JavaFX is a platform used for delivering web applications which have many characteristics of desktop application software that can run on many types of connected devices. JavaFX uses Java FX Script, a specialized language, to build JavaFX applications.

Currently JavaFX can be used for developing applications for desktop computers, mobile devices, TV set top boxes, gaming consoles, and Blue Ray players.

**JCP:** JCP or Java Community process allows interested peoples to build standardized technical specifications for Java technology. Anyone can become a JCP member by registering at the JCP website.

JCP uses Java Specification Requests which are their formal documents that describe proposed specifications and technologies to be added to the Java platform. Formal public reviews take place before they come before the JCP executive committee votes on whether or not to make the formal request final. A finalized request provides free implementation of the technology into source code which verifies the programing specification.

**JSP:** JSP is a Java Server Page, which has scripting capabilities that work along with HTML code. The JSP separates the design and display of the actual web page from the logic page. This helps to make the HTML more functional. JSP's are not restricted by specific platforms or servers.

**JDBC:** JDBC which stands for Java Database Connectivity enables Java programs to execute standardized query statements so that Java programs can interact with any standardized query compliant database.

The overwhelming majority of relational database management systems support standard query and Java runs on most platforms. The JDBC allows programmers to write a single application that can run on several different platforms and interact with different database management systems.

Sources:

www.webopedia.com was used to provide a working definition for J2ME, J2EE, JSP and JDBC.

Wikipedia was used to provide a working definition for J2SE, JavaFX, and JCP.