Strayer University

**Business Applications of Java**

Week 8

**Case Study**

for the

Course of

### Java programming 1

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By

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**Business Applications of Java.**

**Summarize the main points of the article.**

This article was about the important of java in the business environment, the history and the impact in the growing web environment. Open standards have driven the e-business revolution as e-business continues to develop, several computing technologies are helping to promote its evolution. The Java programming language and platform have emerged as major technologies for performing e-business functions. The technology was first created as a computer programming system at Sun Microsystems in 1991.

Java was used by the development team, the Green Team, to create a simple interactive, handheld home-entertainment device controller. It has rather typical programming concepts and constructs. However, one of the unique features of Java is its portability and the common interface created through its external Java Virtual Machine which functions like an independent and self-contained operating environment. It uses a software layer that allows applications written in Java to behave like they are a separate computer. It also enables computers to be able to process more advanced applications which can be achieved because the internally executed JVM instructions do most of the work.

Java has found a place on some of the most popular websites in the world and the uses of Java continues to grow. Founded in 1995, eBay provides a platform for e-commerce that can be used in most places in the world to support global sales and distribution as well as local selling abilities. eBay sites include the eBay marketplaces, PayPal, Skype, Rent.com, Shopping.com, and eBay Enterprise. eBay uses Java almost everywhere. Amazon.com has created a Web Service application that enables users to browse their product catalog and place orders. It uses a Java application that searches the catalog for books and other products whose subject or purpose matches a user-selected topic.

Data is created through every day business processes such as production of items, consumption of supplies or resources, sales of goods or services, and customer service activities. Data storage has three major elements which are the software used to manage stored data, the technology used to store data and the networks that connect computers and computer users to data storage systems.

As databases proliferated, most of them were not well kept and often not very developed. One of the big weaknesses caused by giving end-users the power and computing capabilities that enabled them to create distributed database is that the data dictionaries were not well developed.

The Java Platform, Enterprise Edition, originally named Java2 Platform provides and enables programmers to develop scalable and secure business applications that can run on a wide variety of computer systems that support Java EE.

Java programming language is used by website developers to create functions such as interactivity and animation.

In general, computer controlled equipment on the factory floor was not previously designed to exchange information with enterprise management systems in the executive office. The need for agility and the pressure to be competitive has driven managers to implement new systems that help control manufacturing as well as provide data that is usable in controlling work flow and measuring organizational performance. One of the greatest benefits Java provides in the industrial environment is the high degrees of scalability in apps.

To support the expansion of their computing boundaries, businesses have deployed Web application servers (WAS).

Web site security and the protection of data collected by websites, especially those collecting customer data and credit card information are solved by Java technology ‘s successfully authentication and authorization.

Open standards have driven the e-business revolution. As e-business continues to develop,

various computing technologies help to drive its evolution. The Java programming language

and platform have emerged as major technologies for performing e-business functions. Java

programming standards have enabled portability of applications and the reuse of application

components ("Learn about Java," 2007). Java uses many familiar concepts and constructs

and allows portability by providing a common interface through an external Java Virtual

Machine (JVM). Currently, Java technology can be found in networks and devices from the

Internet and scientific supercomputers to laptops, cell phones, home game players and credit

cards.

**Select two (2) features (e.g., class, object, etc.) of the Java programming language that make it well suited for business applications. Provide one (1) example of a scenario in which each feature is used in business to support your response**.

Some of the two features of the Java programming language that make it well suited for business applications are the Polymorphism and Encapsulation. Polymorphism is the situations in which one method is used with a variety of arguments and Encapsulation is the combination of all the object’s attributes and methods into a single package. These two features made it easy to solve problems in many ways by making it easy to use the above-mentioned features to simplify the building of business applications which will used them. In addition, they make it to create code that is easier to understand, and reuse and encapsulation is very useful in business environment because it can hide the data of a class from an illegal access.

**Provide one (1) example of a scenario which illustrates that Java programs that make simple and complex decisions are useful in business. Justify your response.**

Java programs make simple and complex decisions which are useful in business environment such as the business Intelligence. “Business intelligence is a technology-driven process for analyzing data and presenting actionable information to help executives, managers and other corporate end user make informed business decisions.” It helps to extract the Understanding of consumer purchase patterns and behavior to build strong sales and marketing strategy. In addition, it increases the revenue through information on improving management, tracking of sales float from sales programs, customer penetration, in the finance industry.

**Speculate on the overall trend of the application of Java within the business world over the next five (5) years. Justify your response.**

Since java is the most popular than other languages it is going to continue that level. It was build on this notion of write a program once, and run it anywhere. This make it to be used by most business and it has been favored as a universal front end for the enterprise database. Moreover, it is an object-oriented which make it to be created in modular programs and reusable code. Most businesses want security in their data, therefore java is the solution because it was built on that design. Moreover, business wanted a program which perform at a high level. Java has a multithreaded which is the ability for a program to perform several tasks simultaneously within a program. All the above point make java to continue been the business application program in the next five years.

**Bibilograpy**

1. <http://searchbusinessanalytics.techtarget.com/definition/business-intelligenceBI>
2. <http://www.atcomm.com.au/White-pages/java-business-intelligence-solutions.html>
3. <http://www.streetdirectory.com/travel_guide/114362/programming/most_significant_advantages_of_java_language.html>
4. <https://blackboard.strayer.edu/bbcswebdav/institution/CIS/406/1144/Week8/CIS406_W8_CaseStudy_BusinessApplicationsofJava.pdf>