Assignment - 10

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Title - Web Application using EJB.

OBjectives - 1. Understand about basic concepts of java beans.
2. Understands the basic functionalities of JSP, html.
3. having the knowledge JBOSS server to deploy web applications

Problem statement - Design, Develop & Deploy web application using EJB.

Outcomes -
1. Develop a dynamic webpage using Java Beans, HTML and JSP
2. To understand the concept and method of web based application development process using EJB.
3. create a simple EJB 3 stateless session bean and a local java application client which will call/invoke the bean to develop for additions of two numbers.

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Software Needed.

1. Ubuntu 64 bit / Window 7
2. JDK 7 (JavaSE 7)
3. EJB 3.0
4. Eclipse luna.
5. JBoss Application Server

Theory - Concept.

Java Bean :

- J2EE applications containers contains the components that can be used by clients for executing the business logic.
- J2EE platform has component based Architectures to provide multi-tiered, distributed, and highly transaction features to enterprise level applications.
- EJB 3.0 is being a large shift from EJB 2.0 and makes development EJB based application relatively easy.

Features EJB's :

- client communication - The client which often User interface, must be able to call the method of objects on application proloads.
- state management - You'll recall our discussions on this topic in context JSP and servlet development back inches.

- Transaction management - Some operation, for example, when updating data, must occurs as unit work.
- Database connection management - An application server must connect to a database, often using pools database connections resources.
- User Authentication and Role-Based Authorization - user of applications must often log in for security purposes.

Type of Enterprise Java Bean (EJB) -

1. Session Beans.
2. Entity Beans.
3. Message driven Beans.

Enterprises Java Beans (EJB) Architectures -

The following are flows EJB Architectures

- The clients is working on web browsers.
- There is a database server that hosts a database, like mysql / oracle.
- The Applications server manage the relationships between client and database machines.

Design / Execations Steps -

1. Design EJB project.
2. Start JBOSS & Deploy it on JBOSS server.

3. Design html & jsp files with an extension .html and .jsp.
4. Run the applications in browser and get the result.

Conclusion → Hences, we have created a simple EJB 3 stateless session Bean and a local Java applications client. which will call / invokes the beans to develop for performing addition of two numbers.