

IGATE Global Solutions Ltd

EJB 3.0

Lab Guide

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1 LAB 1: DEVELOPING STATELESS SESSION BEAN

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| Goals | <ul style="list-style-type: none">• Developing Stateless Session Bean• Deploying Stateless Session Bean on JBoss• Developing Java GUI client application• Accessing EJB using Java GUI client |
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Time	90 Min
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Lab Setup	Windows OS with JDK1.5, Eclipse 3.0+ installed, JBoss App Server
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Develop, deploy, and run a simple Java EE application named Currency Converter.

This application should facilitate calculate currency conversions between US dollars and Indian Rupees. Currency Converter should be an enterprise bean, which performs the calculations. Client is a simple GUI java application. Design GUI client which allows to accept currency amount and on click of button displays the converted value.

Deploy the EJB on JBOSS

2 LAB 2: DEVELOPING STATEFUL SESSION BEAN

Goal	<ul style="list-style-type: none">• Developing Stateful Session Bean• Deploying Statful Session Bean on JBoss• Developing JSP client application• Accessing EJB using Web client
Time	90 Minutes
Lab Setup	Windows OS with JDK1.4 installed, Eclipse 3.0+, JBoss

Develop a shopping cart bean for an online bookstore. The bean's client can add a book to the cart, remove a book, or retrieve the cart's contents.

Deploy the application in JBoss and execute. Do not use database.

3 3: DEVELOPING ENTITIES USING JPA

Goal	<ul style="list-style-type: none">• Developing Entity Class• Obtaining Access to an Entity Manager• Accessing data from database• Updating data in database
Time	90 Minutes
Lab Setup	Windows OS with JDK1.4 installed, Eclipse 3.0+, JBoss

For the above bookstore use database. Show the list of books from the database. Update the quantity of books on purchase.

Deploy on JBoss. Use Oracle or MS SQL server as database.

4 4: IMPLEMENTING TRANSACTION

Goal	<ul style="list-style-type: none">Implementing transaction in EJB
Time	120 Minutes
Lab Setup	Windows OS with JDK1.4 installed, Eclipse 3.0+, JBoss

Develop fund transfer application using EJB. The client sends request to transfer amount from one account to another. Ensure that the fund transfer is consistent and complete. Balance should get updated only if the transaction is complete.

Deploy on JBoss. Use Oracle or MS SQL server as database.