



Assignment 1

Group Assignment (10%)

26.03.2009

Introduction

This is a first programming assignment. The purpose of this exercise is to implement transactions in Java using JEE 5. We will amend the example Duke's bank. You find the example Duke's bank and its documentaion under the following URLs:

<http://java.sun.com/javaee/5/docs/tutorial/information/download.html>

<http://java.sun.com/javaee/5/docs/tutorial/doc/gexaj.html>

Question 1: Distributed Transaction Programming [10 points]

Extend the application to *Duke's Imperium*. Duke's Imperium consists of two banks. The clients of the two banks can transfer money from one bank to the other and vice versa. Encapsulate the transfer of money between two banks in a distributed transaction.

Your solution will be assessed not only whether you program compiles and can be demonstrated, but in particular on the quality of your software design for introducing a transfer service with transaction semantic between two distributed bank accounts, the correct usage of the transaction mechanisms in J2EE, on a correct transaction semantic, the handling of error cases, and on the usage of appropriate program comments.

Submission Details

This is a group assignment that should be done in groups of 3; please use the online group signup sheet on WebCT. Your group must demonstrate Duke's Imperium in the tutorial in **Week 6**. Please submit the altered portions of the code of Duke's bank on WebCT!

Remember to hand in a cover sheet for "Groupwork Declaration of Academic Honesty" (found on the course website) and do not forget your names and SID numbers on the submission. Note that there should be only one submission per group!

The mark awarded for your assignment is conditional on you being able to explain any of your answers to your tutor or the subject coordinator if asked.

The assignment must be demonstrated in the tutorial of week 6 and then uploaded to WebCT. Students must retain electronic copies of their submitted assignment files and databases, as the unit coordinator may request to inspect these files before marking of an assignment is completed. If these assignment files are not made available to the unit coordinator when requested, the marking of this assignment may not proceed.

Good success!