Operating Systems

Project

Your project is to write a Multi-threaded TCP Server Application which allows multiple customers to update their bank accounts and send payments to other bank accounts. The service should allow the users to:

1. Register with the system
   - Name
   - Address
   - Bank A/C Number
   - Username
   - Password
2. Log-in to the banking system from the client application to the server application.
3. Change customer details.
4. Make Lodgements to their Bank Account.
5. Make Withdrawal from their Bank Account (Note: Each User has a credit limit of €1000).
6. View the last ten transactions on their bank account.

Server Application Rules

1. The server application should not provide any service to a client application that can complete the authentication.
2. The server should hold a list of valid users of the service and a list of all the users previous transactions.
3. When the user logs in they should receive their current balance.

Project Submission

Each student should submit the code developed to support both the server and client sides of the application (Note: The code must be written in Java). In addition to the code each student should submit a project document explaining the various design decisions that were made during the project, how the server was configured and how their code works.

Submission Deadline

Project Submissions to be submitted to martin.hynes@gmit.ie by 5pm on the 6th January 2015

Points to Note

- Comments expected.

- Good programming practice is expected

- Ensure that any files that are needed to run the program are included in your submission.

- Your code has to run. Serious deduction of marks will occur for code that is not running correctly.

- Plagiarism is not acceptable.

- You will be asked to present your code/application.