SPL (Lab project)
Link ATMs to Banking system

Introduction

The aim of the project is to link ATM machines to the core banking system using multi-threaded client/server architecture. ATMs machines should provide the following services to the customer:

1- Login using account number and pin code.
2- Balance Enquiry.
3- Withdraw money.
4- Short account statement.

Project description

The system consists of two parts:

Core banking system (Server side):

1- Define a file that contains customers account. Using the following structure:

Accounts File:

Full Name	Account number	Balance	Currency	Open date	Pin code

Transactions File:

Account number	Amount	Date

2- A screen that helps admin to add, remove, and update accounts.
3- Server that works on port 9320.
4- Server accepts clients.
5- Authenticate user login.
6- Check account balance.
7- Proceed withdraw transactions.
8- Send account statement (last 3 transactions).

ATM machine (Client Side):
1- GUI that helps users to login the system.
2- Connect to server.
3- Login using account number and pin code.
4- Request balance enquiry from the core banking server.

5- Request withdraw transaction.
6- Request short account statement.

Notes:
1- **Team working**: two-three students together.
2- Estimated time is two weeks.
3- Grade: 17 marks.