## **ASSESSMENT 2 - SPECIFICATIONS**

checklist for your Banking System

## **User types**

The banking system has two types of user: customer and admin.

## **Account types**

There are two account types in the system: current account and saving account.

#### Current account

- Current account does not have interest.
- The overdraft limit may vary from users, range from 0 to 1000.
- One current account per user only.

### Saving account

- The interest rate may vary from users, range from 0.01% to 5.00%.
- It has no overdraft.
- A user can have multiple saving account(s).

#### Pre-set data

The banking system starts with the following users and accounts:

\*Both username and password are case-sensitive.

Username	Password	User type	Other information
Arthur	123	admin	N/A
Boris	ABC	user	Address:  • 10 London Road  Current account  • overdraft limit: 100, balance: 1000
Chloe	1+x	user	Address:  • 99 Queens Road  Current account  • overdraft limit: 100, balance: 1000  Saving account  • interest rate: 2.99%, balance: 4000
David	aBC	user	Address:  • 2 Birmingham Street Saving account 1  • interest rate: 0.99%, balance: 200 Saving account 2  • interest rate: 4.99%, balance: 5000

# Application workflow

\*For all menus, they must have the same item orders and follow the exact same steps.

- 1. When the application starts, it will ask for log in (first username, then password).
- 2. After logging in, depends the user type, it will display the relevant information and menu.

3. If customer, it displays the following menu:

Please select an option:
1 - View account
2 - View summary
3 - Quit
Enter a number to select your option:

1) Display the "the account selection" view: List all the user's Select 1 -View accounts and ask the user to select an account (the account account list always starts with number --Account list--Please select an option: 1 - Saving account: £200 2 - Saving account: £5000 Enter a number to select your option: 2) Then display the balance of the selected account plus the following menu: You selected 2 - Saving account: £5000. Please select an option: 1 - Deposit 2 - Withdraw 3 - Go back Enter a number to select your option: 1. Deposit: user enters a number which will be added into the balance. Then the menu goes back to the account selection. 2. Withdraw: user enters a number which will be deducted from the balance. Then the menu goes back to the account selection. • The amount available is subject to the balance and overdraft limit. 3. **Go back**: back to the account selection. Select 2 -Display the following information: View 1. Total number of accounts in the bank 2. Total balance of all accounts Summary 3. Address Select 3 -Exit the banking system. Quit

4. If admin, it displays the following menu:

Please select an option:
1 - Customer Summary
2 - Financial Forecast
3 - Transfer Money - GUI
4 - Account management - GUI
Enter a number to select your option:

Select 1 - Customer Summary	List all customers information, for each customer:  Name Address All accounts, for each account: Account type Balance Overdraft limit (current) / Interest rate (saving)		
Select 2 -	For each customer, display:		
Financial Forecast	<ul> <li>Name</li> <li>Number of accounts in bank</li> <li>Total money in bank</li> <li>A forecast of total money in bank after a year, where interests might be applicable</li> </ul>		
Select 3 -	When this option selected, a window should appear		
Transfer Money - GUI	where the admin can make money transfer between customers/accounts.		
Select 4 -	When this option selected, a window should appear		
Account	where the admin can add a new account to the		
management - GUI	customer or close (delete) an existing account.		
	<ul> <li>A customer can have no more than one current account.</li> </ul>		
	<ul> <li>A customer should have at least one account in the bank, i.e., cannot delete the last account.</li> </ul>		