Software Requirements for NewBank

Functional requirements

- 1. Users shall be divided in two categories: admins and customers
 - 1.1. Admins shall be able to register customers, their passwords and their accounts.
 - 1.2. Admins shall be able to remove customer accounts
 - 1.3. Admins shall be able to register and approve new loans between customers.
- 2. Customers shall be able to consult their accounts
 - 2.1. Customers shall be able to see an overview of their accounts and the amount they contain
 - 2.2. Customers <u>should</u> be able to consult each account individually and see the history of transactions
 - 2.3. Customers shall be able to check loan account to see amounts loaned to other customers.
- 3. Admins shall not have access to the amount of money contained within their customers' accounts
- 4. Customers shall be able to deposit and withdraw money from an account of their choosing.
- 5. Clients shall be able to specify transfers
 - 5.1. Between their own accounts
 - 5.2. Between their accounts and other customers' accounts
 - 5.3. Customer shall be able to specify that transfer amount is a loan.
- 6. Accounts shall contain all the relevant information
 - 6.1. Account shall contain the full name of the holder
 - 6.2. Account shall contain the inception date of the account
 - 6.3. Account shall contain the spot amount
 - 6.4. Account shall contain a history of transactions
 - 6.5. Account shall contain a unique identifier, similar to IBAN
 - 6.6. Account shall contain and show loan amounts outstanding.
 - 6.7. Account shall contain and show loan amounts due.
- 7. Admin shall be a able to edit account details
 - 7.1. Admin shall be able to edit the names of account holders
 - 7.2. The system should ask if valid ID has been checked before accepting the change
 - 7.2.1. The system shall reject if the response is 'no'
 - 7.2.2. The system shall accept if the response is 'yes'
- 8. The current state of the system shall be persisted (ie. saved and shutdown and loaded at start)
 - 8.1. The persisted state shall not be encoded
 - 8.2. The persisted state shall be stored in a standard format such as JSON or XML
- 9. Customers shall be able to login to and logout of their accounts.

- 9.1. Login shall require customer username
- 9.2. Login shall require customer password
- 9.3. Login shall require customer security question
- 10. Admins shall be able to login to and logout of their accounts
 - 10.1. Login shall require admin username
 - 10.2. Login shall require admin password
 - 10.3. Login shall require admin employee ID
 - 10.4. Login shall require admin security question
- 11. Customers shall be able to loan up to a specified amount to other customers (micro loans)
 - 11.1. Loan amount will have a maximum amount, which will be dependent on the customers current balance.
 - 11.2. The loaning customer shall be made aware of any previous non payments of accepting customer.

Non Functional requirements

- 1. Availability: System shall have minimum downtime for backup and maintenance
 - 1.1. The system shall be available 24 hours a day, 365 days a year.
- 2. Security: System shall meet security standards
 - 2.1. Data shall be encrypted
- 3. System shall notify customer when it is logging off due to inactivity
 - 3.1. Customer should have the ability to prevent log-off by responding within specified time.
- 4. User experience: the UX shall be suitable for its application.
 - 4.1 Customer UX shall be uncomplicated and easy to understand
 - 4.1 Help shall be available to a customer who is having issues with the banking app.
- 5. Banking related activities shall meet relevant banking authority standards for its respective region or country.