**Software Design Document**

**Overview**

* **Status**: In progress
* **Stakeholders**:
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**Description**

The software to be designed will control an automated teller machine (ATM) for a family bank account. Each of the family members will be interacting with the software through a console (keyboard and display). The account is a family bank account which is composed of parents, a twenty-year old child, and a fifteen-year-old child. We consider each family member as customer with a PIN.

After validation the customer will be able to perform the transactions cited below.

The ATM must be able to provide the following services:

* A customer must be able to make a balance inquiry.
* A customer must be able to make a cash withdrawal. The customer will enter the amount of the withdrawal, which will compare with customer’s balance. A withdrawal limit will be established for each child. The twenty-year old will be able to withdraw up to five hundreds and the fifteen years old up to three hundreds.
* A customer must be able to make a transfer. Only the parents and the older child will be able to perform a transfer. The customer will enter the bank account number to be transfer, and the amount of the transfer, which will compare with customer’s balance.

The ATM will serve one customer at a time. A customer will be required to enter a personal identification number (PIN). If the customer is unable to successfully enter the PIN after tries, the program will end, and the customer can try later.

The ATM will provide the customer a message for each successful transaction. If a transaction fails, the ATM will display an explanation of the problem, and will ask whether the customer want to continue the transaction or not.