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**Bank Automation**

The Indian bank has been in operation since 1900. All the transactions are recorded manually. This makes the process both slow and error prone. As a result the bank has started losing customers to other banks.

In order to compete with other banks and win the confidence of the customers, the bank has decided to computerize its operations.

In the first version of the Banking Software, the bank wants to the following functionalities :

1. Credentials verification (BankAccountNo, Password)
2. Deposit
3. Withdrawal
4. Transfer
5. OTP generation

You are one of the programmers who will contribute in software development and have to write a program to implement the above-mentioned functionalities. And while writing the code, you have to follow the following instructions.

1. Customers will have only two fields in the first version of the application. These are *bankAccountNo* and *password*. Other values can be hardcoded (This point is not very clear to me)
2. A customer has to log-in to the system to make any transactions. For this a customer has to enter the credentials (Will a customer not enter the AccountNo?, If yes, then we update this statement accordingly)
3. After successful login, a customer should be able to see the list of operations he/she can do. Following is the list…
   * Deposit
   * Withdraw (Does this make sense here. If this is related to net-banking it is not required.)
   * Transfer
   * Logout
4. When a customer performs any of the operations, the details of the operations should be recorded in a transaction file.
5. While transferring the money, the system should generate a 4 digit OTP. Once the OTP is verified, only then the transaction should happen. Verification of amount during transfer ( Withdrawal amount < Balance) should be part of the operation.

(Shouldn’t we be sharing some sample re: how the data should be recorded in a file for each type of transaction.)