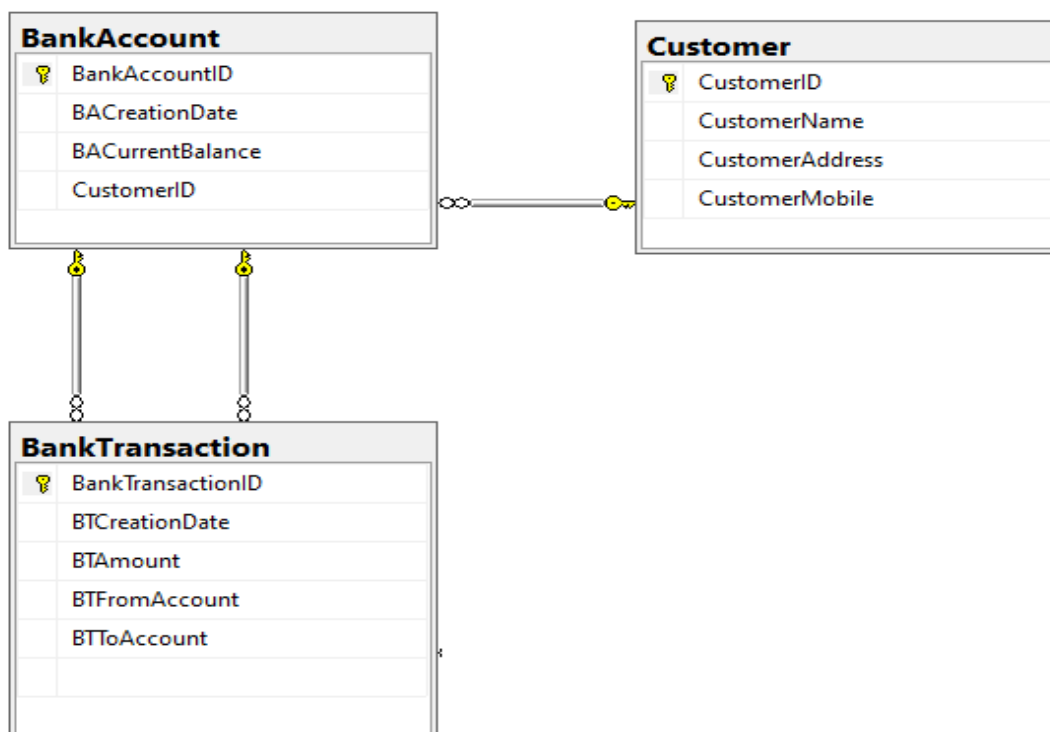


## Assignment #2

(6 grades)

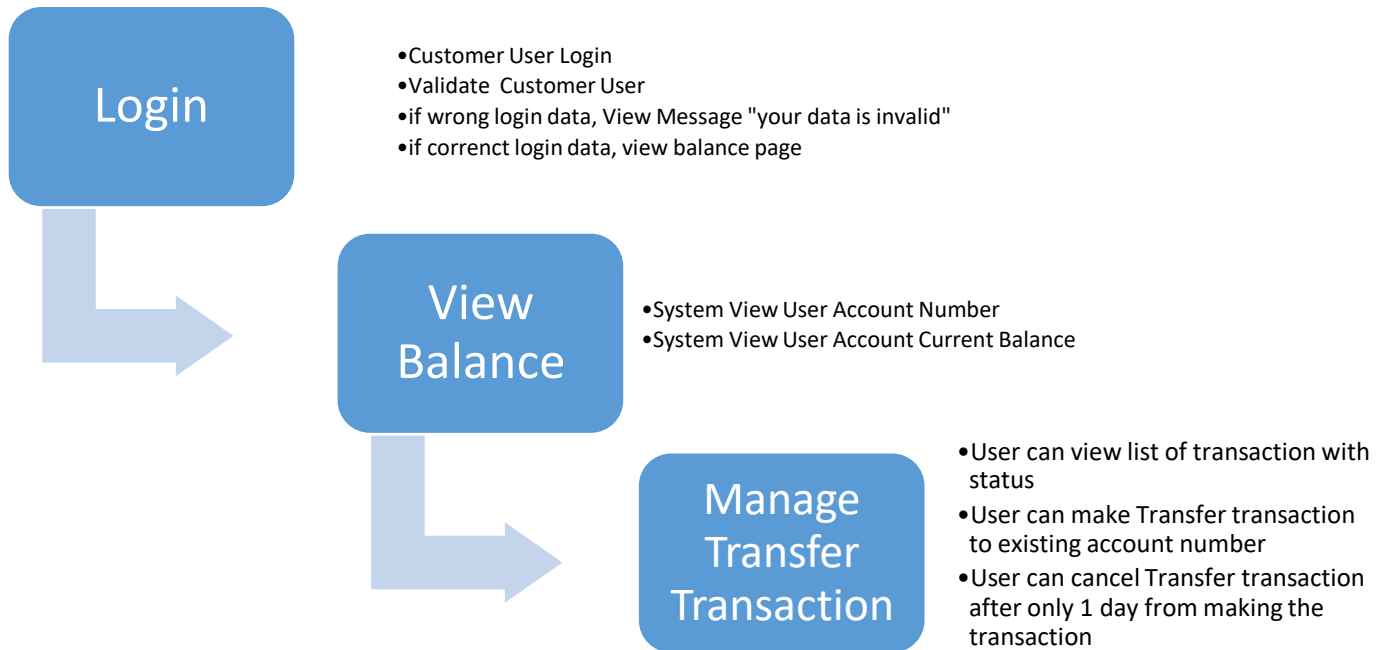
### Banking System Internal Transfer Transaction Management

Having online banking services saves time and efforts. The goal of this assignment is to develop a website for online banking service to manage internal transfer transaction. Consider the following ERD that you have to map it to physical tables:



➤ **Assignment description:**

The following diagram show the flow of the program:



Your application must have 4 pages as following

- **Login.HTML** where customer enter his/her ID and password to login
- Once the customer pressed login button, the **servlet** page called "**validate**" is fired. In this page you have to connect to the database and check whether the entered ID and password exist in customer table or not. If those ID and password existed declare a session to store that parameters (ID) in it, then redirect to the third page "**customerhome.jsp**". On the other hand, if those ID and password didn't exist redirect back to **login.HTML**.
- In "**customerhome.jsp**" you have to check whether the logged in customer had bank accounts or not view the logged in customer account balance *-by checking if he/she exists in "BankAccount" table or not-* If s/he didn't exist you have to allow him press button "Add Account", consequently redirect **Servlet** called "**addaccount**". On the other hand, if he was existed this button must be impressed.

- If account exists for the logged in customer System View User Account Current Balance
  - Once the customer pressed the button “Add Account” and was redirected to servlet called “**addaccount**”. The system generates a random Account Number for the customer with initial amount=1000 then automatically redirected to the “**customerhome.jsp**”.
  - User can view list of transaction ordered in “**transactions.jsp**”.
  - User can make Transfer transaction in the page “**transactions.jsp**” as well to existing account number as follows:
    - ✓ User enter account number to transfer to and amount to be transferred.
    - ✓ Confirmation message will be displayed after transaction is done successfully
    - ✓ The transfer amount will be deducted from the account balance and added to the other account balance
  - User can cancel Transfer transaction with the following scenario:
    - ✓ User select one transaction from list of transaction
  - System redirect to a **page** that check if this transaction is only 1 day old or not
    - ✓ if this transaction is 1 day old it passes: system allow user to confirm cancel
      - ✦ and the balance is deducted from the account back to the original account
    - ✓ else transaction is rejected: system does not allow user to confirm cancel
-

## **Assignment Notes:**

- Individual
- Code must be running, otherwise: zero
- Cheating cases will get zero
- Deadline **Friday (25-12-2020) 11:59 PM**
  - Comment inside your code: Your full name, ID, Group
  - Right click on your Project > clean
  - Compress Project to: "GROUP number \_ID\_assignment2.rar"
    - e.g "IS\_1\_20170050\_Assignment2.rar"
  - Delivery will be using the Blackboard system <https://cu.blackboard.com/>
    - Will be available prior to the deadline