**Project 1 Use Cases**

1. Log into ATM (Customer)
   1. System greets and requests Account #
      1. *Hello, please enter the Account # followed by (\*)*
   2. User enters account owner’s Account # plus \* (in lieu of having physical card swiped)
   3. System requests passcode
      1. *Please enter the passcode followed by (\*)*
   4. User enters passcode plus \*
   5. System displays account status and list of functions.
      1. *Checkings Balance: $$$$$$*
      2. *Savings Balance: $$$$$$*
      3. *Enter 1 to Withdraw Money*
      4. *Enter 2 to Deposit Money*
      5. *Enter 3 to Transfer Money*
      6. *Enter 4 to exit*
   6. Variation #1, invalid account #/pass (Step b):
      1. User enters incorrect account # \*Same process for incorrect passcode
      2. System requests reentry
         1. *Incorrect account #, please reenter followed by (\*)*
      3. User enters correct account #
2. Log into ATM (Operator)
   1. System greets and requests Account #
      1. *Hello, please enter the Account # followed by (\*)*
   2. User enters operator password followed by #
   3. System welcomes and displays operator menu options
      1. *Welcome to operator mode, please select from the following options:*
      2. *Enter 1 to fill ATM*
      3. *Enter 2 to remove from ATM*
      4. *Enter 3 to exit Operator Mode.*
   4. Variations excluded from this step for security reasons (if invalid operator password entry, screen just asks for an Account # again.)
3. Withdraw Money (Customer)
   1. User carries out Log into ATM (Customer)
   2. User selects Withdraw Money menu option
   3. System requests option selection
      1. *Please select the account*
      2. *Enter 1 for checkings*
      3. *Enter 2 for savings*
   4. User selects the option they wish
   5. System requests amount to withdraw
      1. *Enter the amount you would like to withdraw as a whole number (ex. 50)*
   6. User enters the amount to withdraw
   7. System speaks
      1. *Your new account balance is: $--------, please remove money from slot*
   8. Variation #1, insufficient balance (Step f):
      1. User attempts to withdraw beyond their current balance
      2. System denies transaction
         1. *You do not have enough funds for this withdrawal*
      3. User is returned to the initial menu after step a
4. Deposit Money (Customer)
   1. User carries out Log into ATM (Customer)
   2. User selects Deposit Money menu option
   3. System requests option selection
      1. *Please select the account*
      2. *Enter 1 for checkings*
      3. *Enter 2 for savings*
   4. User selects the option they wish
   5. System requests deposit amount separated by bills
      1. *Hundreds:*
      2. *Fifties:*
      3. *Twenties:*
      4. *Fives:*
   6. User enters the bill amounts
   7. System speaks
      1. *Please place tender inside the open slot*
   8. User places their deposit inside the open ATM slot
   9. System speaks
      1. *You have deposited $--------, your x account balance is now $--------.*
5. Transfer Money \*NOTE: Transfers go to the same account type
   1. User carries out Log into ATM (Customer)
   2. User selects Transfer Money menu option
   3. System requests second account’s owner name
      1. *Please enter the account owner you wish to transfer to*
   4. User enters the account owner’s name followed by (.)
   5. System requests option selection
      1. *Please select the account*
      2. *Enter 1 for checkings*
      3. *Enter 2 for savings*
   6. User selects option they wish
   7. System speaks
      1. *Please select the amount to transfer*
   8. User enters the amount to transfer
   9. System speaks
      1. *You have transferred $-------, your x account balance is now $------.*
6. Fill ATM (Operator)
   1. User carries out Log into ATM (Operator)
   2. User selects Fill ATM menu option
   3. System requests fill amount
      1. *Hundreds:*
      2. *Fifties:*
      3. *Twenties:*
      4. *Fives:*
   4. User enters amounts
   5. System speaks
      1. *ATM has been filled, now exiting Operator mode.*
7. Remove from ATM (Operator)
   1. User carries out Log into ATM (Operator)
   2. User selects Remove from ATM menu option
   3. System requests removal amount
      1. *Hundreds:*
      2. *Fifties:*
      3. *Twenties:*
      4. *Fives:*
   4. User enters amount
   5. System speaks
      1. *ATM has been emptied, now exiting Operator mode.*