# Banking Application

1. **For every new account created**
   1. Automatically assign a unique account ID
   2. Set initial balance to 1000 Rupees
   3. Validations are done using Regular Expressions
   4. Accept the following
      * First Name
        + Valid names are not only consisting of the letters A-Z
        + Check for a single word
        + Make first letter uppercase and rest lowercase
      * Last Name
        + Valid names are not only consisting of the letters A-Z
        + Check for a single word
        + Make first letter uppercase and rest lowercase
      * Gender
        + Single letter, M or F
      * Address
      * Mobile Number
        + Check for presence of only numbers and no other character
        + Only 10 digits allowed
      * Email Address
        + Check for “local\_part@domain\_part”
      * Password
        + At least one upper case English letter
        + At least one lower case English letter
        + At least one digit
        + At least one special character
        + Minimum 8 in length
2. **Existing Accounts**
   * Display a list of all authorized Account Numbers along with Name of the user.
   * At the same time, allow user to enter an account number and select an account.
   * Once the account is found and selected, the program asks the user for password, else an error is generated
   * Once the correct password is entered, a menu is shown to allow selection of “Transaction Portal”, “Statement” or “Settings”
3. **Transaction Portal**
   * Allows withdrawal of money from the account.
   * Allows transfer of money to other accounts in the database.
   * If the balance amount goes below 1000 rupees, the bank charges a penalty of 50 rupees at the end of every 30 days after that.
   * Allows loan of money from the Bank.
   * The loaned amount is stored in a separate variable and the net balance is updated.
4. **Statement**
   * Prints all the details of the account along with the dates and amount of transactions.
5. **Settings**
   * Allows change of password
   * Allows deletion of account which is possible only when the balance is below 10 rupees.