Use Case 2: Register User

**Scope:** MoneyManager Android app

**Level:** User goal

**Primary Actor:** User

**Stakeholders and Interests:**

* User – wants an easy and accurate method of keeping track of his/her bank account balance(s)
* System Admin(s) – want to record how many registered users are using the app and when each one registered

**Preconditions:** User does not have an account in the system.

**Postconditions:** Empty account is created for user with their desired username and password. Account creation date is logged. User is logged in with their newly created account. Other accounts in the system remain unchanged. If account creation fails then no changes are made to the system.

**Main Success Scenario:**

1. User indicates that they want to register an account.
2. User provides their desired identification (username, email, etc) and password with which they want to access their account
3. System creates empty account in the database for the user with their desired credentials and logs the date and time of the event
4. System logs user into their newly created account

**Extensions:**

\*a. At any time, the connection to the database is lost

1. System pauses its current activity
2. System attempts to reconnect to database
   1. If successful, system proceeds from where it left off
   2. If unsuccessful after a certain time period, system notifies user that connection has been lost and aborts the process

\*b. At any time, the user quits the app or otherwise aborts the process before it is completed

1. System reverts any changes made

3a. Account with the desired username/email already exists

1. System informs user that their desired username/email is taken
2. System prompts user to re-enter their credentials with a different username/email
3. Repeat steps 1 and 2 until either the user chooses an available username/email or the user aborts the process

3b. System somehow failed to create the new account on the database

1. System informs user that account creation failed, possibly with error code and the option to view technical details
2. System reverts all changes made to the database and aborts the process
3. User may choose to try again

3c. Desired username/email contains invalid characters (i.e. $#!+)

1. System informs user that their desired username/email is invalid
2. System informs user that their username/email may only contain letters, numbers, periods, hyphens/underscores, and the @ symbol (i.e. characters allowed in an email address)
3. System prompts user to re-enter their credentials with a valid username/email
4. Repeat steps 1-3 until either the user chooses a valid username/email or the user aborts the process

**Special Requirements:**

* Conventional Android smartphone UI
* Response from database on success or failure within a reasonable amount of time
* Hidden text in password field

**Technology and Data Variations:**

\*a. User may be using the app on any device running Android OS

3a. Desired username/email/password entered by user

3b. Username/email may only contain characters allowed in an email address: letters, numbers, hyphens/underscores, periods, and the @ symbol

3c. Password may only contain ASCII printable characters

**Frequency of Occurrence:** Only once per user, but may be nearly continuous for the system

**Open Issues:**

* Will the login ID be an email address or a username?
  + If a username, will an email address also be required to register?
    - If so, will a user be able to register multiple usernames under the same email address?

- Matt Schmidt