Use Case: Login Authentication and registration

## Brief Description

The goal of this use case is to log in and authenticate a user. Which brings them to the dashboard and allows for the usage of every other use case.

# Included Use Cases

N/A

# Preconditions

Application is installed on mobile devices OR

Webapp has been navigated to on browser

# Flow of Events

## Basic Flow – The user is authenticated and navigated to the dashboard

1. This use case begins when the user accesses the log-in splash page on mobile or webapp.
2. The system presents a username and password field, to be filled by the user
3. The user fills the fields and selects complete
4. The system checks the username and password against the database for authentication
5. The system supplies a token for authentication to the user
6. The system moves the user to the dashboard
7. The use case ends.

## Alternative Flows

N/A

## Exception Flows

E1: System determines User has incorrect authentication.

1. This flow begins when the system determines that user name and/or password do not match the database for authentication Reference: basic flow step 4.
2. The system presents a message telling the user that the username or password is incorrect.
3. The system returns the user to step 2 of the basic flow, this will be halted after 3 incorrect attempts
4. The use case ends.

E2:

1. This flow begins when the username is in use in alternative flow 1 step 5
2. The system returns a message to the user stating the username is in use.
3. The system prompts to reset user password
4. The user selects yes
5. The system prompts for username to be entered
6. The user enters username
7. The system checks for the username in database, and sends a lost password link to associated email address
8. The user follows link
9. The systems presents user with a change password field
10. The username fills the password field
11. The system stores new password in the database with username associated
12. The system returns user to basic flow step 1

# Requirements

# Post-conditions

1. The system has an authenticated user logged in
2. The system allows for full functionality and access to use cases

# Notes & Open Issues

Q1: How long do we want to keep users registered?

A1: No limit at this time, will be reviewed if users get to be too long

Q2: Do we need a captcha service to prevent bots?

A2: Possibly, will add to Future functionality

# Out of Scope (Future Functionality)

1. Captcha possible for future if bots become an issue.

# Appendix A – Data Definition for Report List

| **Field Name** | **Description** | **Type** | **Valid Values** | **Default** | **Business Rules** |
| --- | --- | --- | --- | --- | --- |
| User Name | User Name | Text | cannot be longer than 15 characters  alphanumeric characters (letters A-Z, numbers 0-9) with the exception of underscores, | N/A |  |
| Password | Password | Text | Must not be longer than 20 characters  Must not contain the user's account name or parts of the user's full name that exceed two consecutive characters.  Must be at least six characters in length.  Must contain characters from three of the following categories:  English uppercase characters (A through Z).  English lowercase characters (a through z).  Base 10 digits (0 through 9).  Nonalphanumeric characters (for example, !, $, #, %). | N/A |  |