

# User Administration

## Account Recovery

A mechanism for regaining access to an active or disabled account on LifeLog

**Effort Points (Hour)** - 100 points

**Complexity Scale:** Medium

### App Permissions

- Permission: Recover or Disable account access
- Scope: Any Normal User or Admin user

**Target Audience** - All Normal User and Admin user that exist within LifeLog

### Requirements

- On account recovery view the user must provide username and valid OTP to submit account recovery request
- All Admin Users will be able to view the latest account recovery requests for all Normal Users. Root Admins will be able to view the latest account recovery requests for both Normal Users or Admin users
- Upon successful account recovery action by Admin Users or Root Admin, Normal Users or Admin Users will be able to authenticate into the system.
- Any system failures from this feature must not result in the system going offline

### Pre-conditions

#### For Recovery:

1. Normal Users must not have an active authenticated session, otherwise the user is unable to perform the operation

2. Normal Users must be on account recovery view
- Only Root Admin can recover Admin user accounts

#### **For Disabling :**

1. Normal Users or Admin users must have an active authenticated session, otherwise the user is unable to perform the operation
2. Normal Users or Admin users must be on account disable view. The message “Are you sure you want to disable this account” will be shown to Normal Users, “Are you sure you want to disable this account, only the root admin can enable this account” will be shown to Admin Users

#### **Success Outcome(s)**

- Normal User or Admin User provides assigned username and valid OTP. Request is made available to Admin users and Root Admin user respectively within 3 seconds. The system message: “Account recovery request sent” displays within 3 seconds of invocation
- The respective admin completes account recovery for the user. The system message: “Account recovery completed successfully” within 3 seconds of invocation. Affected user regains access to the system within 3 seconds of invocation.

#### **Failure Outcome(s)**

- User provides invalid username or invalid OTP . A system message displays “Invalid username or OTP provided. Retry again or contact Root Admin”
- User provides valid username and valid OTP:for user:
  - Request is not available to authorized system admin users
  - Request is available but message does not display within 3 seconds
- The respective admin completes account recovery for user:
  - Message does not display within 3 seconds
  - Message does display within 3 seconds. Affected user does not regain access

- Message does display within 3 seconds. Affected user does not regain access within 3 seconds.

## Lifelog Calendar

### LC1 User Story<sup>[17]</sup>: View Calendar

As an authenticated user, I can filter the calendar by month to visualize my LLI<sup>[3]</sup>

**Effort Points (Hour)** - 100 points

**Complexity Scale:** Medium

#### User Input

##### Optional Input

- Time period filter
  - Month (Gregorian Calendar )
  - Year (1900 - Current Year)
  - Default value: Current system MM/YY

#### App Permissions

- Permission: Read
- Scope: Lifelog User Account

**Target Audience** - All authenticated normal users

**Pre-conditions**

1. The user is registered
2. The user is authenticated
3. The authenticated user is on the calendar view

### Success Outcomes

- When a user creates a new LLI, the calendar populates with their LLI<sup>[3]</sup> on the respective deadlines. This happens when they are within the authenticated user's calendar filter
- The calendar will be visually impacted by the filter input, defined in the User Inputs
- The calendar's filter options are correctly shown to the user
- The calendar is filtered and visualized with LLI<sup>[3]</sup> on their respective deadlines within 3 seconds
- When in the calendar view the user viewing their LLI<sup>[3]</sup> in calendar is logged in the persistent data store
- The following is included in the log:
  - Timestamp
    - When the calendar filter is applied
    - When the filtered calendar is displayed
    - Timestamp will be in YYYY-MM-DD-hh-mm-ss format
    - Timestamp is recorded relative to PST
  - Log Level (Success)
  - Log Type (View)
  - The message: "User has viewed the calendar"

### Failure Outcomes

- The calendar does not populate with LLI<sup>[3]</sup> on their respective deadlines, when this happens user cannot go to calendar view
- The calendar display does not reflect one or more of the user's filter specifications
- The calendar is not filtered and visualized with LLI<sup>[3]</sup> on their respective

deadlines within 3 seconds

- The user viewing their LLI<sup>[3]</sup> in the calendar is not logged in the persistent data store. This immediately kicks out the unauthorized user
- The failure is not logged in the persistent data store
- The failure log does not include any of the following/any of the following are formatted incorrectly:
  - Timestamp
    - When the calendar filter is applied
    - When the calendar filter and display operation encounters an error
    - Timestamp will be in YYYY-MM-DD-hh-mm-ss format
    - Timestamp is recorded relative to PST
  - Log level (Failure)
  - Log type (View)
  - The message: “Calendar display operation encountered an error”

## LC2 User Story<sup>[17]</sup>: Edit LLI<sup>[3]</sup> Using Calendar

As an authenticated user I can use the calendar to modify existing LLI<sup>[3]</sup>, enabling ease of access to existing LLI<sup>[3]</sup> through the calendar.

**Effort Points (Hour)** - 50 points

**Complexity Scale:** Low

### User Input

#### Optional Input

- LLI<sup>[3]</sup> title
  - Must only contain alphanumeric values
  - Must be between 1-50 characters long
  - The value is not nullable
  - Default value is current title

- Category/Categories of LLI<sup>[3]</sup>
  - The valid options are “Mental Health<sup>[5]</sup>”, “Physical Health<sup>[6]</sup>”, “Outdoor<sup>[7]</sup>”, “Sport<sup>[8]</sup>”, “Art<sup>[9]</sup>”, “Hobby<sup>[10]</sup>”, “Thrill<sup>[11]</sup>”, “Travel<sup>[12]</sup>”, “Volunteering<sup>[13]</sup>”, and “Food<sup>[14]</sup>”
  - The option is not nullable
  - Default value is the current category/categories
- Description of LLI<sup>[3]</sup>
  - Must consist only of alphanumeric values between 0–200 characters long
  - The value is nullable
  - Default value is the current description
- Status of LLI<sup>[3]</sup>
  - The valid options are “Active”, “Completed”, “Postponed”
  - The option is not nullable
  - Default value is the current status
- Visibility of LLI<sup>[3]</sup>
  - The valid options are “Public, Private”
  - The option is not nullable
  - Default value is the current visibility
- Deadline of LLI<sup>[3]</sup>
  - Must be a valid date in the format MM/DD/YYYY. No timestamp
  - The date must be between 01/01/1900 and next 5 years after current year
  - The option is nullable
  - Default value is the current deadline
- Cost of LLI<sup>[3]</sup>
  - Must be a numerical value greater or equal to \$0 USD
  - The unit of the cost is USD
  - Cost cannot be non-integers
  - Cost cannot exceed \$1 million USD
  - Default cost is the current cost

## **App Permissions**

- Permission: Read and Write
- Scope: Lifelog User Account

**Target Audience** - Any authorized User

## **Pre-conditions**

1. The user is registered
2. The user is authenticated
3. The authenticated user is on the calendar view

## **Success Outcomes**

- Changes, if any, to the LLI<sup>[3]</sup> attributes are accurately reflected in the relational database
- All inputs meets validation requirements in User Input section
- The calendar view contains the reflected changes, if any
- The message “LLI has been successfully changed” would show up
- Changes, if any, are saved to the persistent data store within 3 seconds of the user initializing the change action
- The LLI<sup>[3]</sup> change through the calendar is logged in the persistent data store
- The following is included in the log:
  - Timestamp
    - When the LLI<sup>[3]</sup> update operation is initialized
    - When the LLIs<sup>[3]</sup> updates are stored in persistent data store
    - Timestamp will be in YYYY-MM-DD-hh-mm-ss format
    - Timestamp is recorded relative to PST
  - Log Level (Success)
  - Log Type (Edit)
  - The message: “User changed a LLI<sup>[3]</sup> using the calendar“

## **Failure Outcomes**

- Changes to the LLI<sup>[3]</sup> attributes are not reflected in the persistent data store accurately. In this case, “LLI updates failed” is displayed to the user. The LLI instance in the data store should not be changed.
- All inputs do not meet validation requirements in the User Input section. In this case, “LLI inputs are invalid, please try again” is displayed to the user and existing LLIs won't be modified.
- The calendar view doesn't contain the reflected changes, if any
- The message: “LLI<sup>[3]</sup> had been successfully changed” is displayed, if the LLI<sup>[3]</sup> had been successfully changed
- Changes, if any, are not saved to the persistent data store within 3 seconds of the user initializing the change action. In this case, “Operation exceeded time frame” is displayed.
- The LLI<sup>[3]</sup> change through calendar is not logged in the persistent data store
- The failure log does not include any of the following/any of the following are formatted incorrectly:
  - Timestamp
    - When the LLI<sup>[3]</sup> is updated
    - When the LLI<sup>[3]</sup> update operation failed
    - Timestamp will be in YYYY-MM-DD-hh-mm-ss format
    - Timestamp is recorded relative to PST
  - Log level (Failure)
  - Log type (Edit)
  - The message: “LLI<sup>[3]</sup> update from calendar process failed”

### **LC3 User Story<sup>[17]</sup>: Create LLI<sup>[3]</sup> Using Calendar**

As a registered user I can click a date on the calendar to create a new LLI<sup>[3]</sup>, enabling a visual method of LLI<sup>[3]</sup> creation.

**Effort Points (Hour) – 50 points**



## Complexity Scale: Low

### User Input

#### Required Input

- Title of LLI<sup>[3]</sup>
  - Must only contains alphanumeric values between 1-50 characters long
  - The value is not nullable
- Category/Categories of LLI<sup>[3]</sup>
  - The valid options are “Mental Health<sup>[5]</sup>”, “Physical Health<sup>[6]</sup>”, “Outdoor<sup>[7]</sup>”, “Sport<sup>[8]</sup>”, “Art<sup>[9]</sup>”, “Hobby<sup>[10]</sup>”, “Thrill<sup>[11]</sup>”, “Travel<sup>[12]</sup>”, “Volunteering<sup>[13]</sup>”, and “Food<sup>[14]</sup>”
  - The option is not nullable

#### Optional Input

- Description of LLI<sup>[3]</sup>
  - Must consist only of alphanumeric values between 0-200 characters long
  - Default to null
- Status of LLI<sup>[3]</sup>
  - The valid options are “Active”, “Completed”, “Postponed”
  - Default to “Active”
- Visibility of LLI<sup>[3]</sup>
  - The valid options are “Public, Private”
  - Default to “Public”
- Deadline of LLI<sup>[3]</sup>
  - Must be a valid date in the format MM/DD/YYYY
  - The date must be between 01/01/1900 and 12/31/2100
  - Default to null
- Cost of LLI<sup>[3]</sup>
  - Must be a numerical value greater or equal to 0
  - Default to null

## **App Permissions**

- Permission: Write
- Scope: Lifelog User Account

**Target Audience** - All authenticated Normal Users

## **Pre-conditions**

1. The user is registered
2. The user is authenticated
3. The authenticated user is on the calendar view

## **Success Outcomes**

- The new LLI<sup>[3]</sup> is saved to the relational database
- All inputs meets validation requirements in User Input section
- The message: “LLI<sup>[3]</sup> had been successfully saved” is displayed
- The new LLI<sup>[3]</sup> is saved to the persistent data store within 3 seconds of the user initializing the create action
- The LLI<sup>[3]</sup> creation through the calendar is logged in the persistent data store
- The following is included in the log:
  - Timestamp
    - When the LLI<sup>[3]</sup> is creation operation from calendar is initialized
    - When the LLI<sup>[3]</sup> is stored in persistent data store
    - Timestamp will be in YYYY-MM-DD-hh-mm-ss format
    - Timestamp is recorded relative to PST
  - Log level (Success)
  - Log type (Create)
  - The message: “The user created a LLI<sup>[3]</sup> using the calendar”

## **Failure Outcomes**

- The new LLI<sup>[3]</sup> is not saved in the data store. In this case, “LLI fails to save” is

displayed to the user.

- All inputs do not meet validation requirements in the User Input section. In this case, “LLI inputs are invalid, please try again” is displayed to the user
- The message: ”The LLI<sup>[3]</sup> had been successfully saved” is not displayed, if the LLI<sup>[3]</sup> had been successfully saved
- The new LLI<sup>[3]</sup> is not saved to the persistent data store within 3 seconds of the user initializing the create action. In this case, “Operation exceeded time frame” is displayed
- The LLI<sup>[3]</sup> creation through calendar is not logged in the persistent data store
- The failure log does not include any of the following/any of the following are formatted incorrectly:
  - Timestamp
    - When the LLI<sup>[3]</sup> is created from calendar
    - When the LLI<sup>[3]</sup> creation process failed
    - Timestamp will be in YYYY-MM-DD-hh-mm-ss format
    - Timestamp is recorded relative to PST
  - Log level (Failure)
  - Log type (Create)
  - The message: ”The LLI<sup>[3]</sup> creation process from calendar failed”

# Lifelog Badge

## LB1 User Story<sup>[17]</sup>: View Badges

As an authenticated user I can access the Lifelog Badge view to see what badges I've accomplished.

**Effort Points (Hour) - 50**

**Complexity Scale: Low**

### App Permissions

- Permission: Read
- Scope: Lifelog User Account

**Target Audience - Any authorized User**

### Pre-conditions

1. The user is registered
2. The user is authenticated
3. The authenticated user is on the LifeLog Badge view

### Success Outcomes

- LLBs<sup>[1]</sup> shown visibly on the LifeLog Badge view
- Category LLBs<sup>[1]</sup> are accurately represented in the LLB<sup>[1]</sup> view
- The streak LLB<sup>[1]</sup> is accurately represented in the LLB<sup>[1]</sup> view
- When in the LLB view the user viewing a LLB<sup>[1]</sup> is logged in the persistent data store
- Accurate LLB is shown to the LLB view within 3 seconds
- The following is included in the log:
  - Timestamp
    - When the LLB<sup>[1]</sup> view operation is initialized
    - When the LLB<sup>[1]</sup> view is finalized and displayed

- Timestamp will be in YYYY-MM-DD-hh-mm-ss format
  - Timestamp is recorded relative to PST
- Log Level (Success)
- Log Type (View)
- The message: “The user accessed the LLB<sup>[1]</sup> view”
- The log is archived off of the persistent data store

## Failure Outcomes

- LLBs<sup>[1]</sup> are not shown visibly on the LifeLog Badge view
- Category LLBs<sup>[1]</sup> are not accurately represented in the LLB<sup>[1]</sup> view
- The streak LLB<sup>[1]</sup> is not accurately represented in the LLB<sup>[1]</sup> view
- When in the LLB view, the LLB<sup>[1]</sup> user viewed is not logged in the persistent data store
- Accurate LLB is not shown to the LLB view within 3 seconds
- The failure log does not include any of the following/any of the following are formatted incorrectly:
  - Timestamp
    - When the LLB<sup>[1]</sup> view operation is initialized
    - When the LLB<sup>[1]</sup> view operation fails
    - Timestamp will be in YYYY-MM-DD-hh-mm-ss format
    - Timestamp is recorded relative to PST
  - Log Level (Failure)
  - Log Type (View)
  - The message: “LLB<sup>[1]</sup> view operation has encountered an error”

## **LB2 User Story<sup>[17]</sup>: Obtain Badges**

As an authenticated user I will be able to obtain badges for completing LLI<sup>[3]</sup> of specific categories, encouraging me to pursue more LLIs<sup>[3]</sup>.

**Effort Points (Hour) - 50**

**Complexity Scale: Low**

### **App Permissions**

- Permission: Read and Write
- Scope: Lifelog User Account

**Target Audience - Any authorized User**

### **Pre-conditions**

1. The user is registered
2. The user is authenticated

### **Success Outcomes**

- Category LLB<sup>[1]</sup> is rewarded correctly based on user's accomplishments
- User's LLB<sup>[1]</sup> is successfully stored in relational database
- The user obtaining a LLB<sup>[1]</sup> is logged in the persistent data store
- All Category LLB obtained are saved to the persistent data store within 3 seconds of the user gaining said badge.
- The following is included in the log:
  - Timestamp
    - When the LLB<sup>[1]</sup> is obtained
    - When the LLB<sup>[1]</sup> is stored in persistent data store
    - Timestamp will be in YYYY-MM-DD-hh-mm-ss format
    - Timestamp is recorded relative to PST
  - Log Level (Success)
  - Log Type (Edit)

- The message: “User obtained a [Category] LLB<sup>[1]</sup>” Category: details what category the category LLB<sup>[1]</sup> is for

## Failure Outcomes

- LLBs<sup>[1]</sup> doesn't match the accomplishment of user activity
- User's LLB<sup>[1]</sup> is not successfully stored in a database
- The user obtaining a LLB<sup>[1]</sup> is not logged in the persistent data store
- All Category LLB obtained are not saved to the persistent data store within 3 seconds of the user gaining said badge.
- The failure log does not include any of the following/any of the following are formatted incorrectly:
  - Timestamp
    - When the LLB<sup>[1]</sup> is obtained
    - When the LLB<sup>[1]</sup> save to profile operation fails
    - Timestamp will be in YYYY-MM-DD-hh-mm-ss format
    - Timestamp is recorded relative to PST
  - Log Level (Success)
  - Log Type (Edit)
  - The message: “LLB<sup>[1]</sup> failed to be saved to a user account{“

## LB3 User Story<sup>[17]</sup>: Obtain Login Streak Badges

As an authenticated user I will be able to obtain a login streak badge, encouraging me to login frequently.

**Effort Points (Hour) – 50**

**Complexity Scale: Low**

## **App Permissions**

- Permission: Read and Write
- Scope: Lifelog User Account

**Target Audience** - Any authorized User

## **Pre-conditions**

1. The user is registered
2. The user is authenticated

## **Success Outcomes**

- Login Streak badge matches how many consecutive days user logs in
- User's Login Streak badge is successfully stored in the data store
- User's login streak number is successfully stored in the data store
- Streak number only goes up after 24 hours have passed between user's first and second login
- The user obtaining a login streak badge is logged in the persistent data store
- The following is included in the log:
  - Timestamp
    - When the login streak badge is obtained
    - When the login streak badge is stored in persistent data store
    - Timestamp will be in YYYY-MM-DD-hh-mm-ss format
    - Timestamp is recorded relative to PST
  - Log Level (Success)
  - Log Type (Edit)
  - The message "user obtained a login streak badge"

## **Failure Outcomes**

- Login Streak badge doesn't match how many consecutive days user logs in
- User's Login Streak badge is not stored in the persistent data store
- User's streak number is not stored in the persistent data store
- Streak number doesn't goes up after 24 hours have passed between user's first



and second login

- Streak number goes up after any event other than the one mentioned in success outcomes
- The user obtaining a login streak badge is not logged in the persistent data store
- The failure log does not include any of the following/any of the following are formatted incorrectly:
  - Timestamp
    - When the login streak badge is obtained
    - When the login streak badge storage operation fails
    - Timestamp will be in YYYY-MM-DD-hh-mm-ss format
    - Timestamp is recorded relative to PST
  - Log level (Failure)
  - Log type (Edit)
  - The message: "Storing the user's login streak badge failed"