# Software Requirements Specification

# PRJ566 – Winter 2021

# PRJ566 – Team No: 3

# Name of Project:  Selfcare

# Project Leader: Scott Maciver

**Last updated:** Friday April 23rd, 2021

**Team Members:**

* Scott Maciver
* Skye Bragg

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# 1 - Introduction/Overview - Document Information

## 1.1 Document Authors

* + Scott Maciver
  + Skye Bragg

## 1.2 Revision History

|  |  |
| --- | --- |
| Week 03 | 1. Introduction/Overview  1.1 Document Authors  1.2 Revision History (ongoing)  1.3 Document Conventions  1.4 Document Purpose  1.5 Intended Audience  1.7 Group Agreement  2 Project Overview  2.1 Project Proposal |
| Week 04 | 2.2 Stakeholders and Users  2.3 Functional Requirements  2.4 Non-Functional Requirements |
| Week 05 | 2.6 Interface Mock-Ups  3.1 DFDs, |
| Week 06 | 3.1 Activity diagrams, Business Use Case Diagrams  2.5 project scope draft |
| Week 07 | 3.2 System use case diagrams, Use case descriptions |
| Week 08 | 3.1.6 class diagram  3.1.7 use case specifications |
| Week 09 | 4.1 Scripts to create, populate, delete tables  4.1.1 Scripts to create tables  4.1.3 Scripts to delete tables |
| Week 10 | * + 1. Scripts to populate tables   4.2 Data Dictionary |
| Week 11 | Will add here l8r Hey we did this but only just realized we were supposed to screen shot it sorry |
| Week 12 | 6. Measurable Deliverables  7.Acceptance Criteria |
| Week 13 |  |
| Final | 5.1 Work Break Down Structure  5.2 Implementation Schedule |

## 1.3 Document Conventions

Any text in red indicates an exception or error

Any text in blue is in-progress

Any text highlighted in yellow is an important point.

Any text in green was recently added.

Any text *italicized* represents definitions.

Any text with ~~strike-through~~ is deleted.

## 1.4 Document Purpose

This documents purpose is to provide an in-depth summary of selfcare, our mobile application. Its purpose is to inform the team developing the application and any stakeholders about the expected information on the applications progress, as well as detail the specifications of the user interface, all hardware and software requirements and describe the target audience. This document is intended to assist all with the software development lifecycle.

## 1.5 Intended Audience

Intended for anyone involved with the development of the application.

## 1.7 Group Agreement

TEAM AGREEMENT

Team # 3

Project Title: Selfcare

Project Time Frame: 8 months

Team Members: Scott Maciver, Skye Bragg

Team Leadership: Scott Maciver

Team Functions:

* *We will share information through MS Teams, and meetings.*
* *Collaborate on individual ideas*
* *Communicate problems within team to find solutions to problems*

Team Meetings: when progress or concerns come up

Team Problems: Problems understanding teams software(solved), unclear on specific deliverables (solved)

Team Commitment

The undersigned members agree to work together on the project until the end of the PRJ666 next Semester. They recognize that as a team and individually they are responsible for the quality of all deliverables.

Name Date

|  |  |
| --- | --- |
| Scott Maciver | Sunday, February 7, 2021 |
|  | Sunday, February 7, 2021 |
|  |  |
|  |  |

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# 2 - Project Overview

## 2.1 Project Proposal

**Project Background**

Scott Maciver and Skye Bragg wanted to create an app that could help them and others experiencing similar mood management problems, such as mood swings and emotional triggers, when managing their mental health. Over time we have used several mental health apps, that often felt lacking in their features such as, statistics, trends and coping resources. This project aims to combine many different mental health practices in a single convenient package. With over a combined 7 years in therapy, Skye and Scott have had experience in utilizing techniques to monitor and maintain their mental health and wish to create an app that can help even more people throughout Canada.

**Problem Statement**

A lack of tools available for those who wish to monitor and maintain their own mental health which prevents individuals from reaching their full potential. A successful solution provides users with a subset of convenient tools that would improve user’s general mood and wellbeing.

**Product Vision**

On average, individuals tend to neglect their mental health while prioritizing other tasks, both in the workplace and at home. Selfcare is a mobile application aimed at individuals that wish to keep good mental health habits, by providing tools and personalized data about their own long-term mental health trends. Unlike other applications on the market which are often lacking in tools and analytics, our product provides a multitude of tools in one primary location accompanied by analytics that can help individuals maintain long term benefits.

## 2.2 Stakeholders and Users

|  |
| --- |
| Project Lead |
| Developers |
| Users |
| External Content Creators |
| MongoDB |

## 2.3 Functional Requirements

## Create User Account

* 1. User Chooses to register
     1. System provides user with feature to register
        1. User chooses to register
     2. System redirect to register module
  2. User creates profile
     1. System provides required fields and validation metrics
        1. User inputs required data
        2. Validation logic implemented to validate data type and content before submission
        3. Allow user correction upon failed attempt
        4. Provide exit functionality to be able to leave registration module
        5. Allow submission upon validated attempt
        6. Back-end system validates to ensure database rules maintained
           1. Upon failed validation attempt, user is sent back to home screen
           2. Upon successful validation attempt, system saves user data to database
        7. Database creates database for mood data transferring over any previously entered data, not saved to a user
           1. Upon success, system sends welcome email.
        8. System redirects user to profile page with user data displayed, and success message

1. Track user mood
   1. User chooses to track mood
      1. System provides user with feature to track mood and provides validation data
         1. User inputs mood percentage data
         2. User inputs mood emotion data
         3. User inputs mood notes data
         4. System validates data to ensure current input
         5. System sends validated data to database
            1. Upon success user is sent to home screen
            2. Upon failure system stores data locally and user is sent to home screen
2. View Graph Data
   1. User chooses to view graph data
      1. System provides user with feature to view graph data
         1. System retrieves graph logic and layout data
         2. User selects week, month, or year data
         3. System sends request to database for data based on selection
            1. Upon successful retrieval system provides logic for data to be arranged
            2. Upon failed attempt system provides error message
3. View insights
   1. User chooses to view insight data
      1. System provides user with feature to view insight data
         1. System retrieves insight logic and format data
         2. System sends request to database for requested data
            1. Upon successful retrieval system provided logic for data to be arranged
            2. Upon failed attempt system provides error message
4. Select Meditations
   1. User chooses to view meditations
      1. System provides the user with feature to redirect to meditations
         1. System checks user data for key words
            1. System submits key words to database
            2. Database returns YouTube playlist that matches keyword

If no keywords found: Database returns default playlist

* + - 1. Confirmation required for user to be redirected

1. Select Breathing Exercises
   1. User chooses to view Breathing Exercises
      1. System provides the user with feature to view breathing exercise
         1. System displays GIF from internal data
         2. System set to default timing
         3. User selects different breathing mode
         4. System displays GIF from internal data
2. Select Sync to Cloud
   1. User selects sync to cloud
      1. System provides user with feature to sync existing data to cloud
         1. System attempts to connect to data base
            1. If unsuccessful system displays failed message
            2. If successful system sends user data to database
         2. Database updates data based on database rules
         3. System displays success message
3. Update Profile
   1. System provides user with feature to update profile
      1. User selects profile page
         1. System displays available fields to change and validation logic
            1. User inputs chosen data
            2. System attempts to validate user data

On failed attempt, system displays a failure message

* + - * 1. System sends data to database
        2. Database updates based on database rules

If successful system displays success message

If unsuccessful system displays failure message

## 2.4 Nonfunctional Requirements

1. Security Requirements
   1. User data is encrypted
2. Operational Requirements
   1. System will operate on the Android platform
   2. User data will be backed up to a database on new input
   3. Admin/Debug accounts created manually in database
3. Performance Requirements
   1. Efficient loading of stored database information
4. Capacity
   1. User data stored for five years
      1. After five years user is asked if they wish to back up old data to physical device
      2. If account is inactive for more than two years account is deleted
   2. Data to be stored in NOSQL database

## 2.5 Project Scope Draft

**Project Summary:**

This project involves the design and development of a mobile application titled ‘Selfcare’. This project will follow the detailed scope outlined below.

**Project Scope:**

* Design and maintain a working database to hold and manage all user and external resource data
* Creation of database scripts to create, retrieve, and store user data
* Theme, development, and database design for the application
* The features for the application will include:
  + - User account creation
    - Update account feature
    - Database creation
    - Mood tracking feature
    - Ability to view previous data for up to five years past
    - Graph generation based on stored user data from database
    - Insight generation based on stored user data from database
    - Curated YouTube meditation playlist based off user notes data
    - Breathing Exercises feature
    - Ability to sync physically stored application data to cloud
* Curated YouTube content to meditations that will be hand selected.
* Application testing: We will ensure that all the features listed above are functioning as expected on Android Mobile devices.

**Outside of Project Scope:**

* Curated YouTube content: Any automation of this process will not be included in this scope.
* Porting: Porting to iOS and desktop computers will not be included in this scope.
* Database: Secondary backup will not be included in this scope.
* User Moderation: any moderation of the users using the application will not be included in this scope.
* Account: User enabled account deletion, and mood data deletion is not included within this scope.
* Accessibility Options: Colour blind, hearing impaired and Visual impaired options are not included within this scope.

## 2.6 Interface Mock-ups

Graphical user interface, application

Description automatically generatedGraphical user interface, application

Description automatically generatedGraphical user interface, application

Description automatically generatedA picture containing text, iPod, electronics

Description automatically generatedGraphical user interface, application

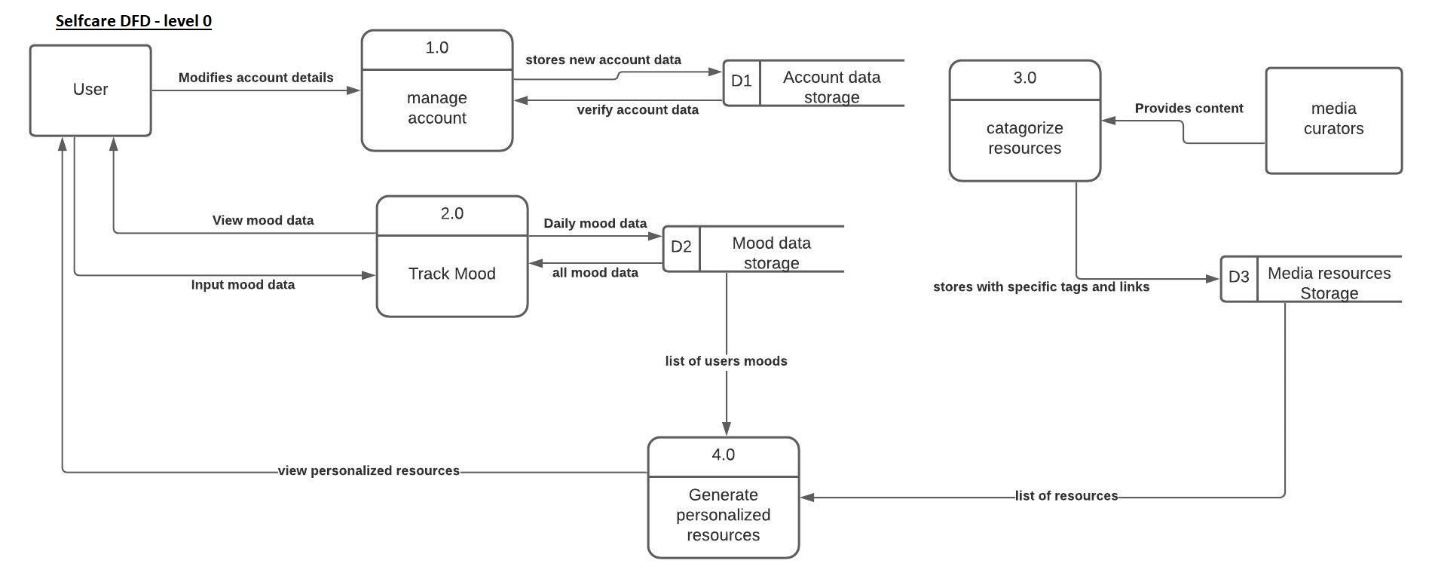
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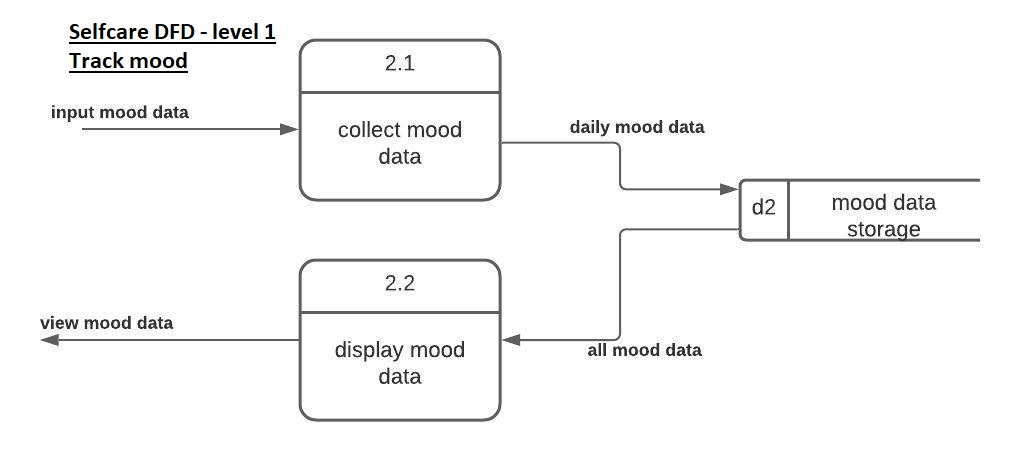
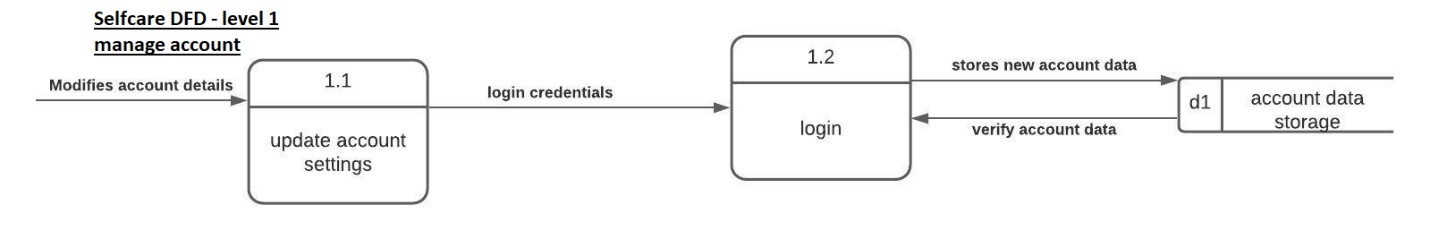
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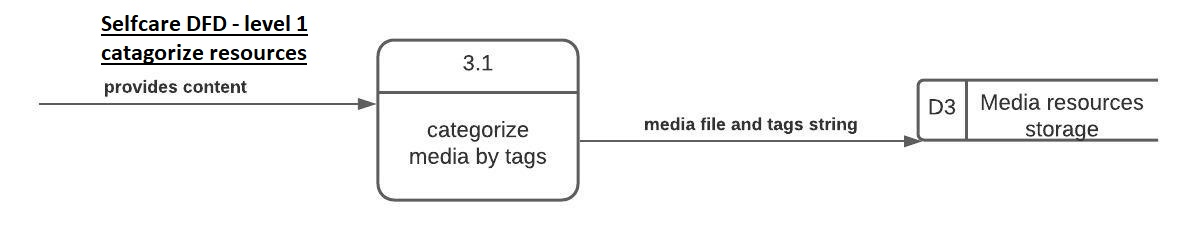
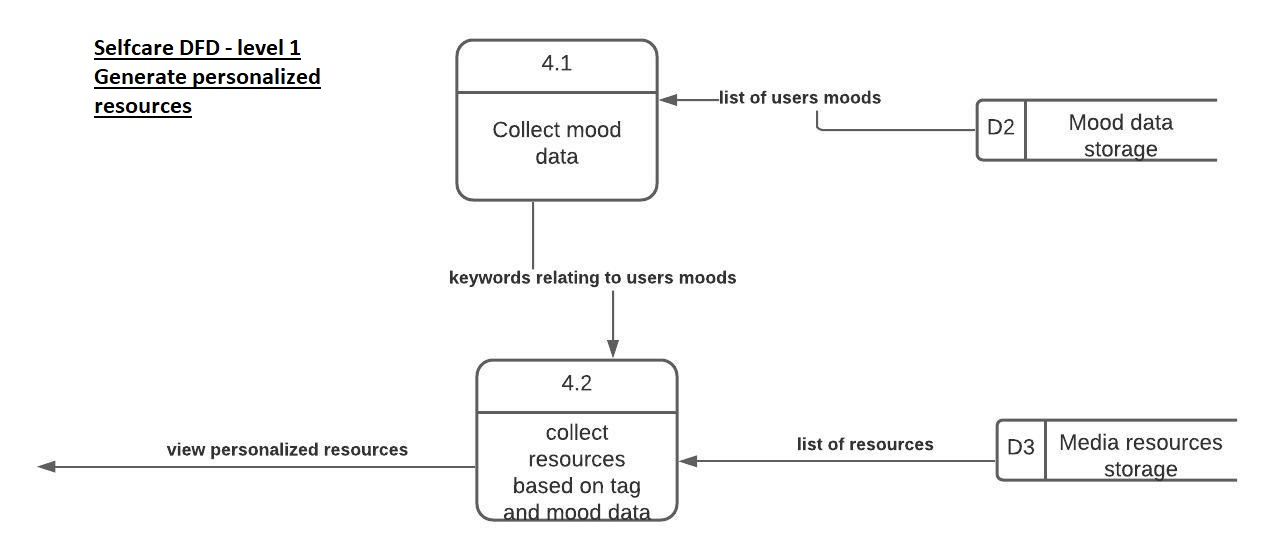
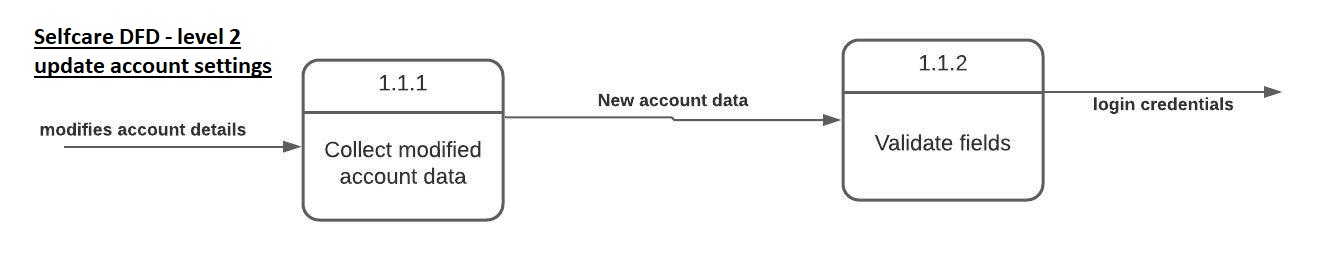
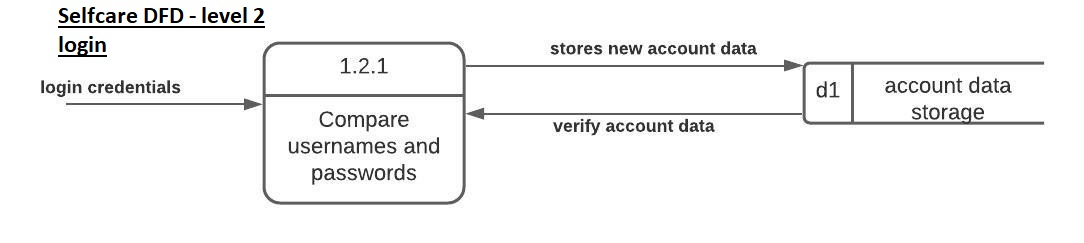
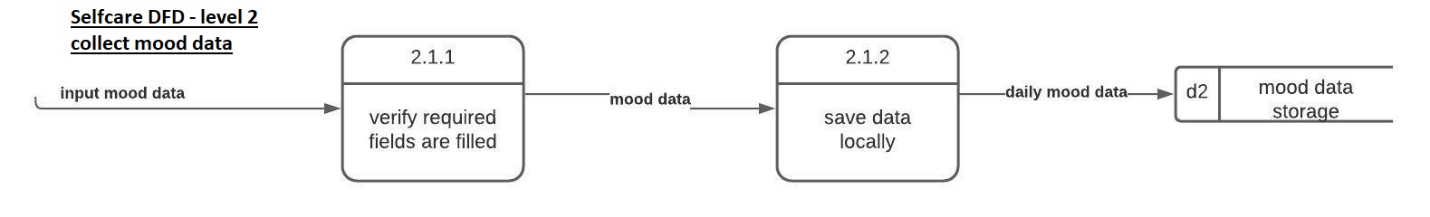
# **Process and Data Modelin****g**

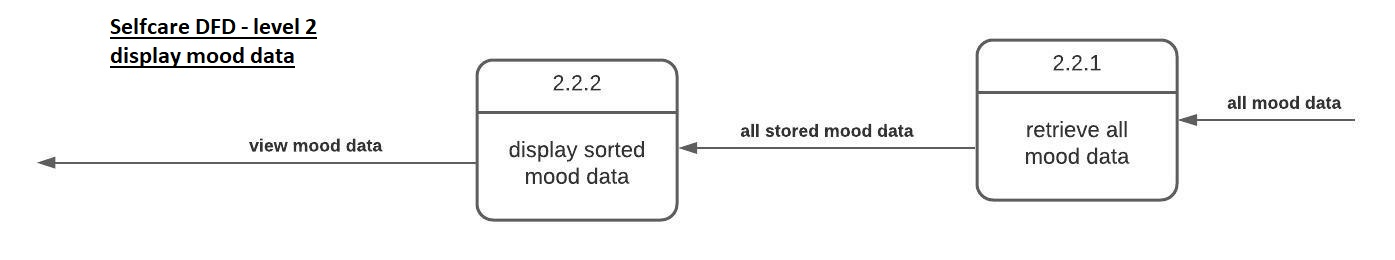
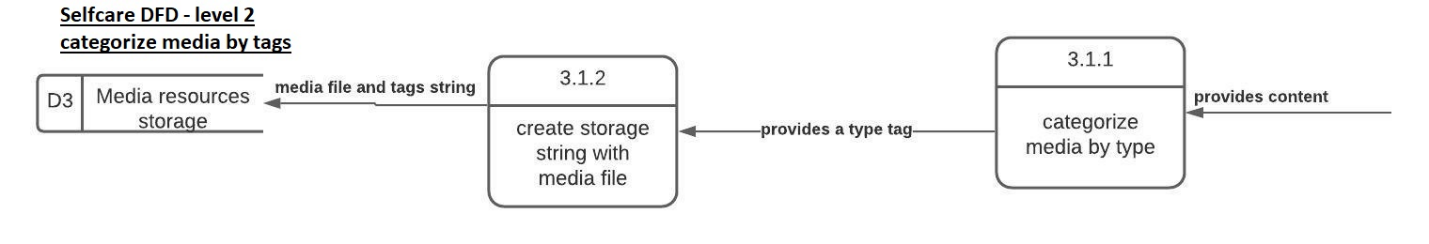
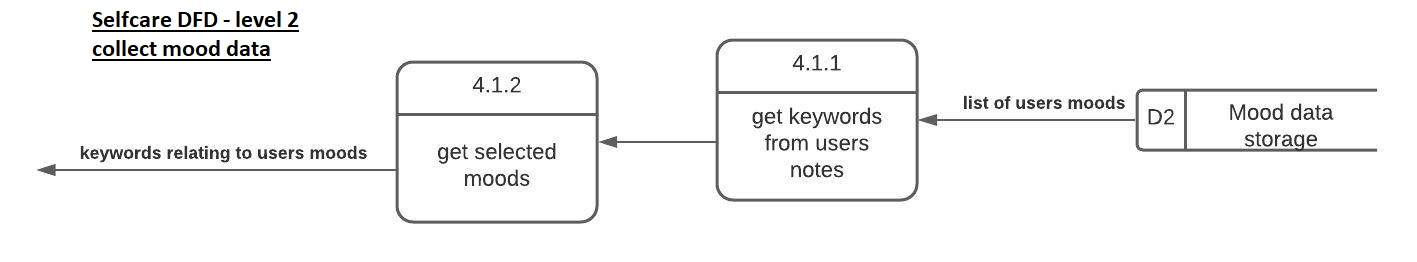
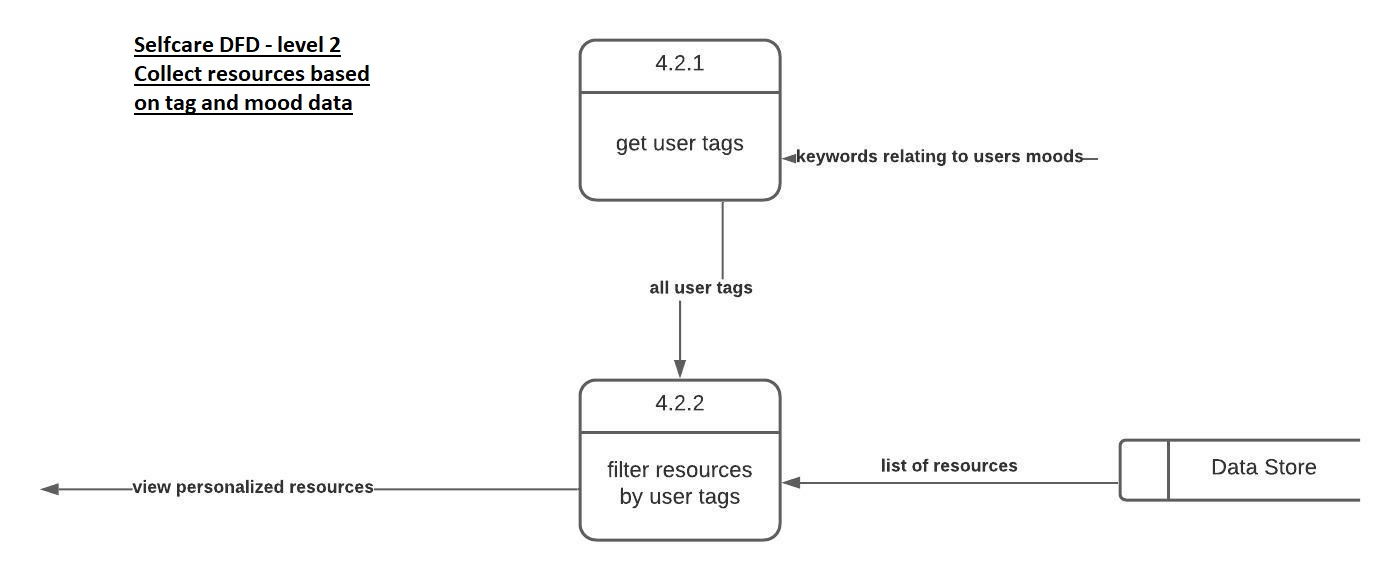
## 3.1 UML/DFD Modeling and Data Modeling

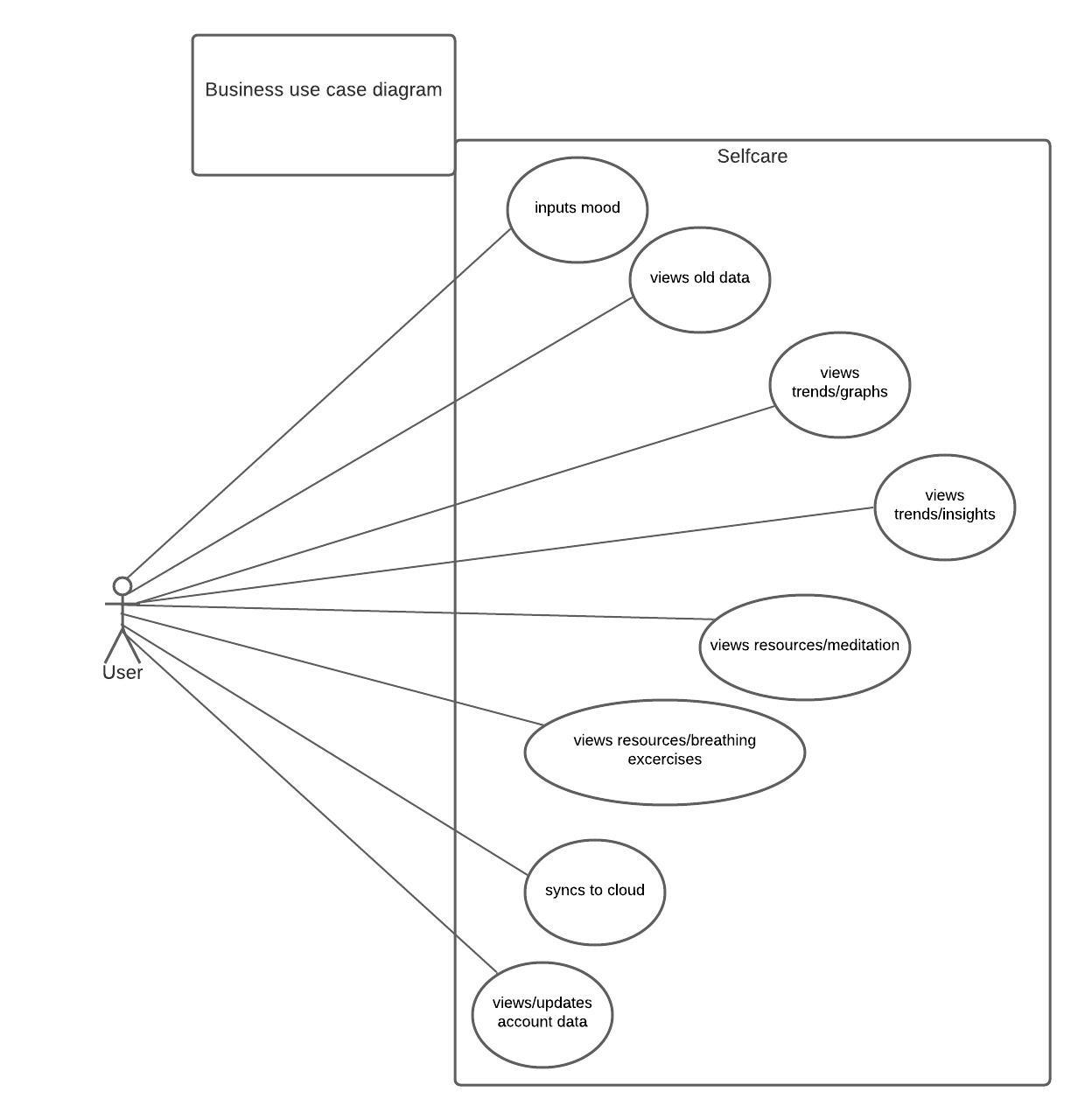
3.1.1 Data Flow Diagrams

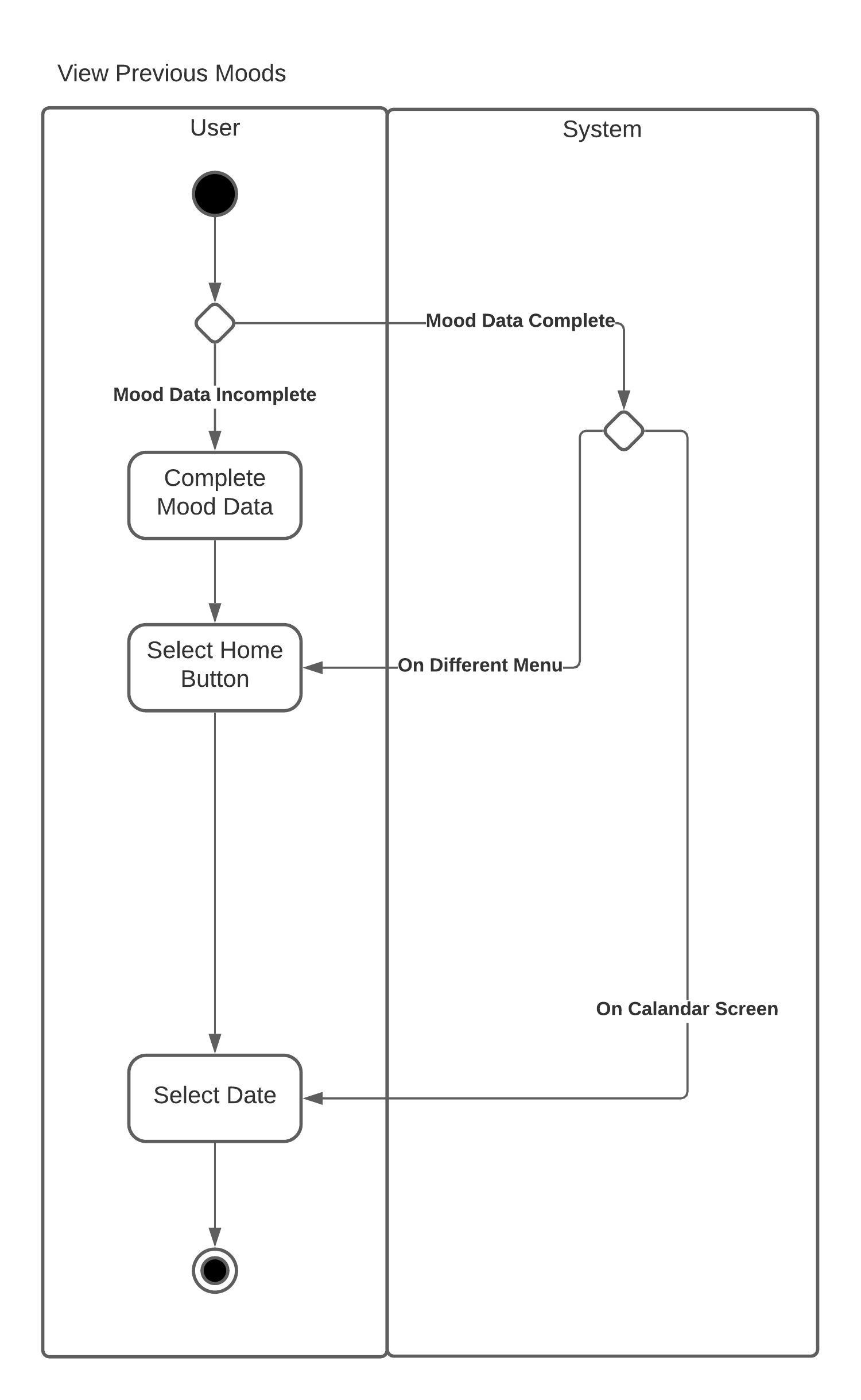
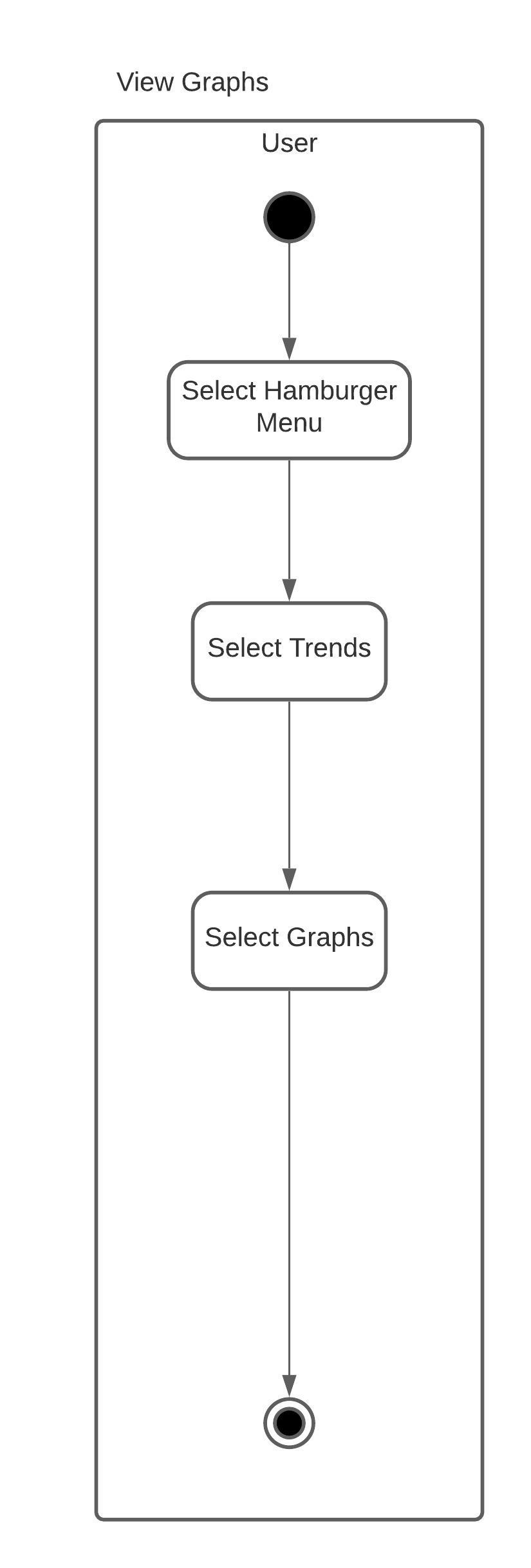
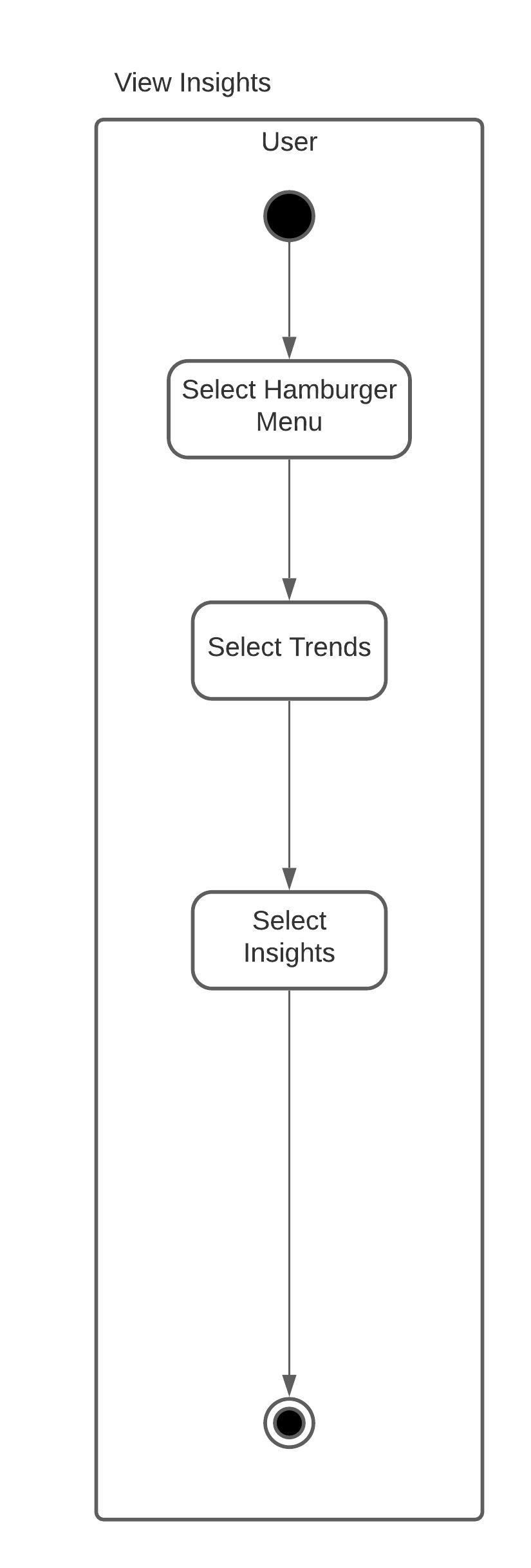
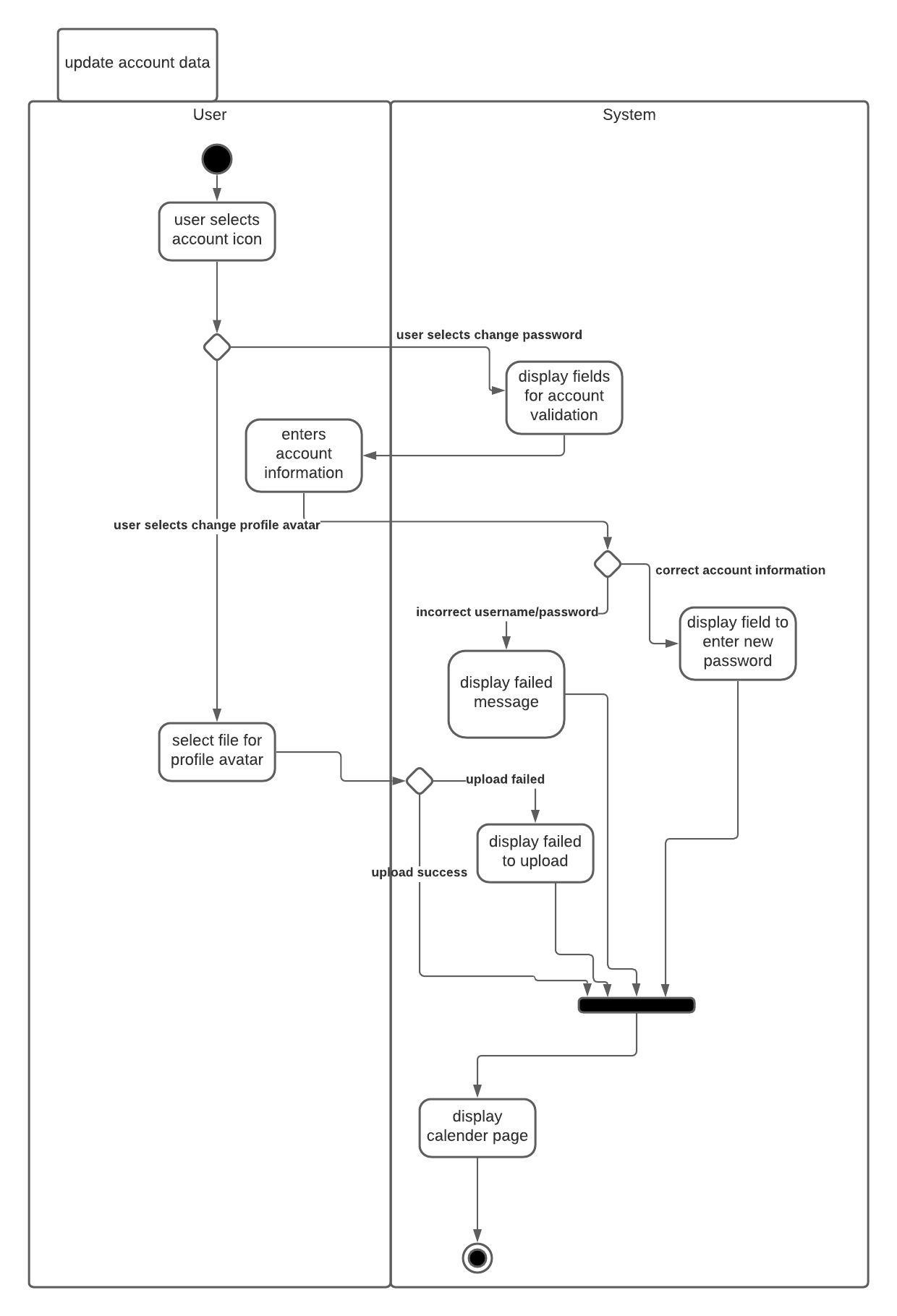
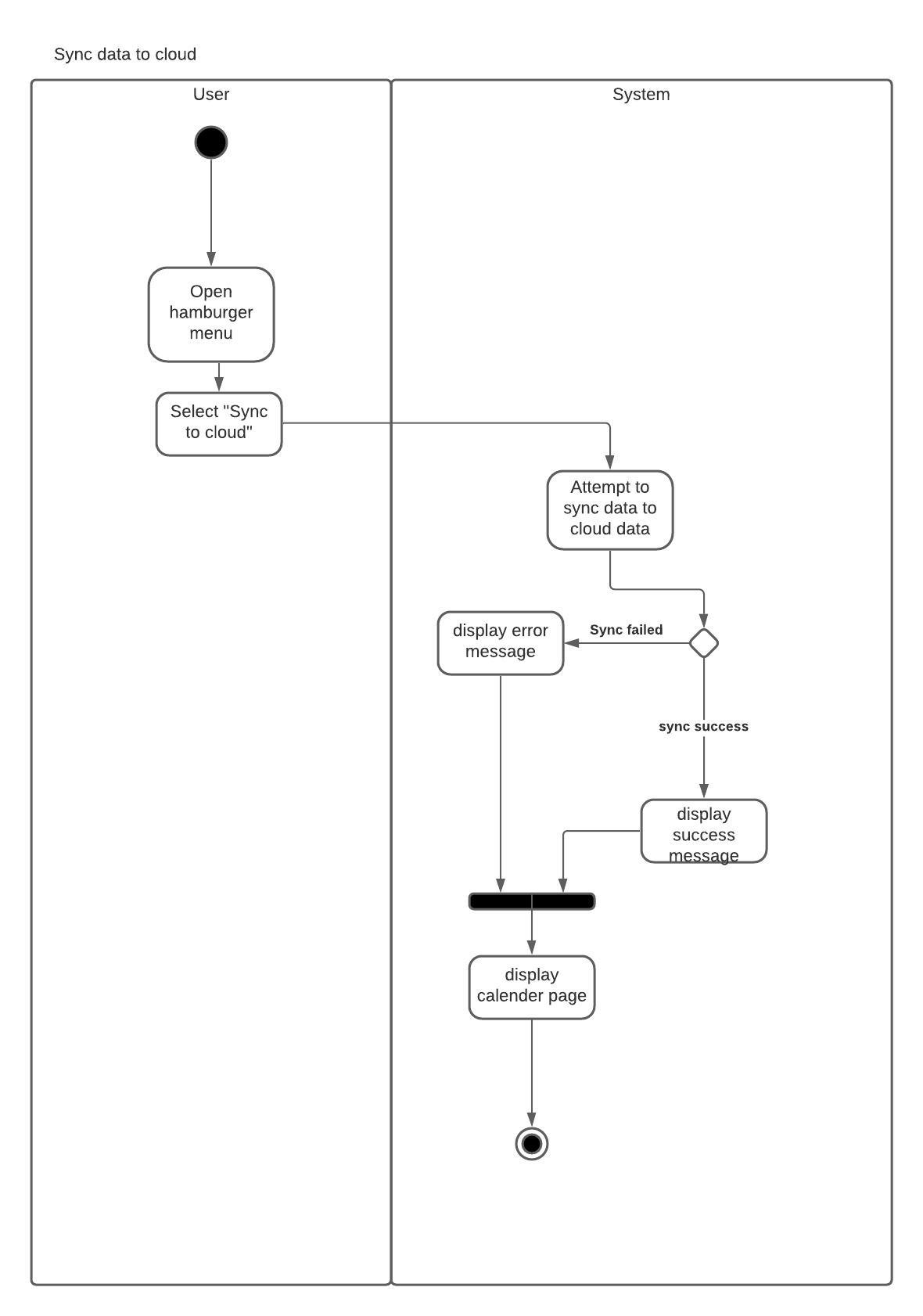
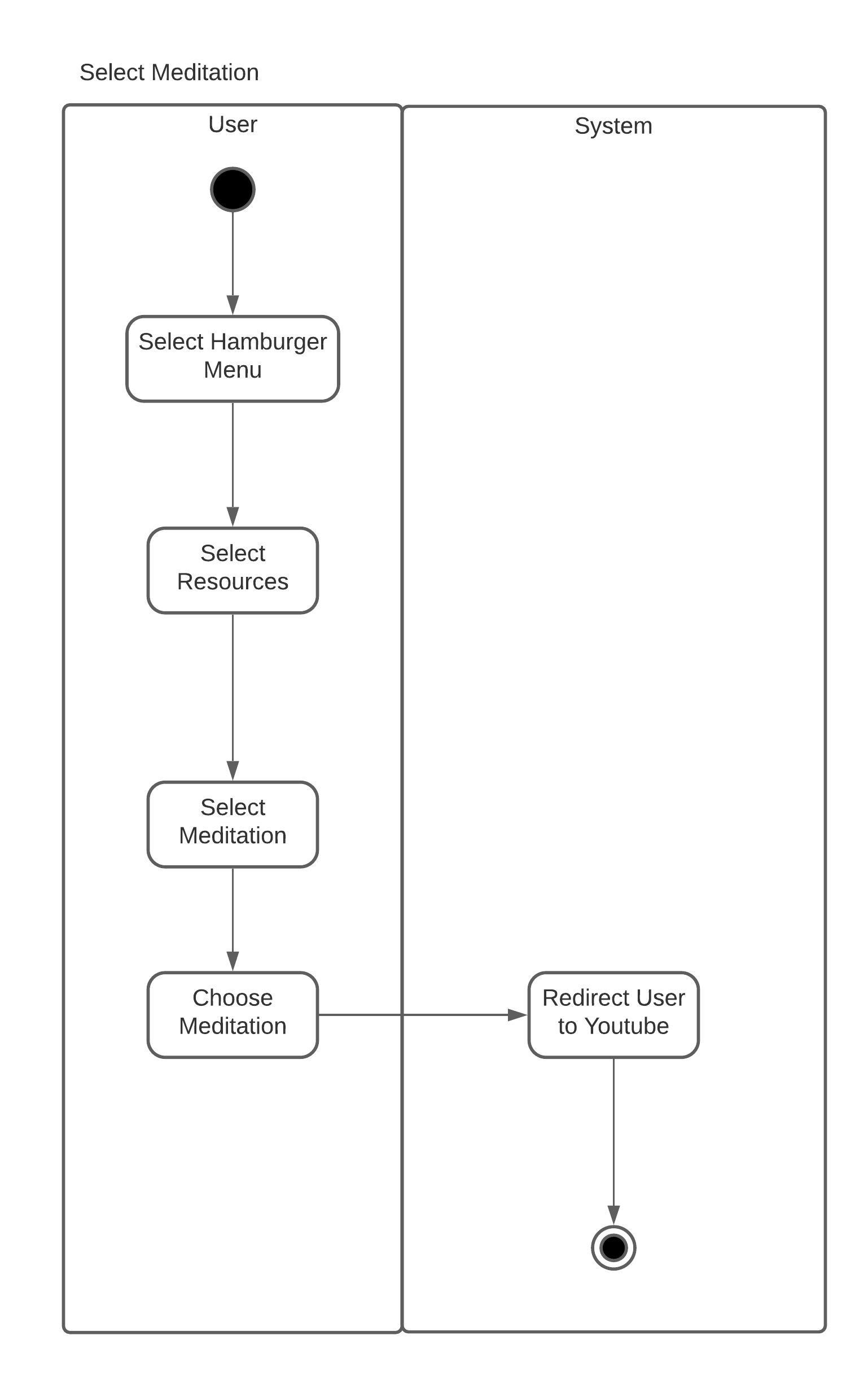
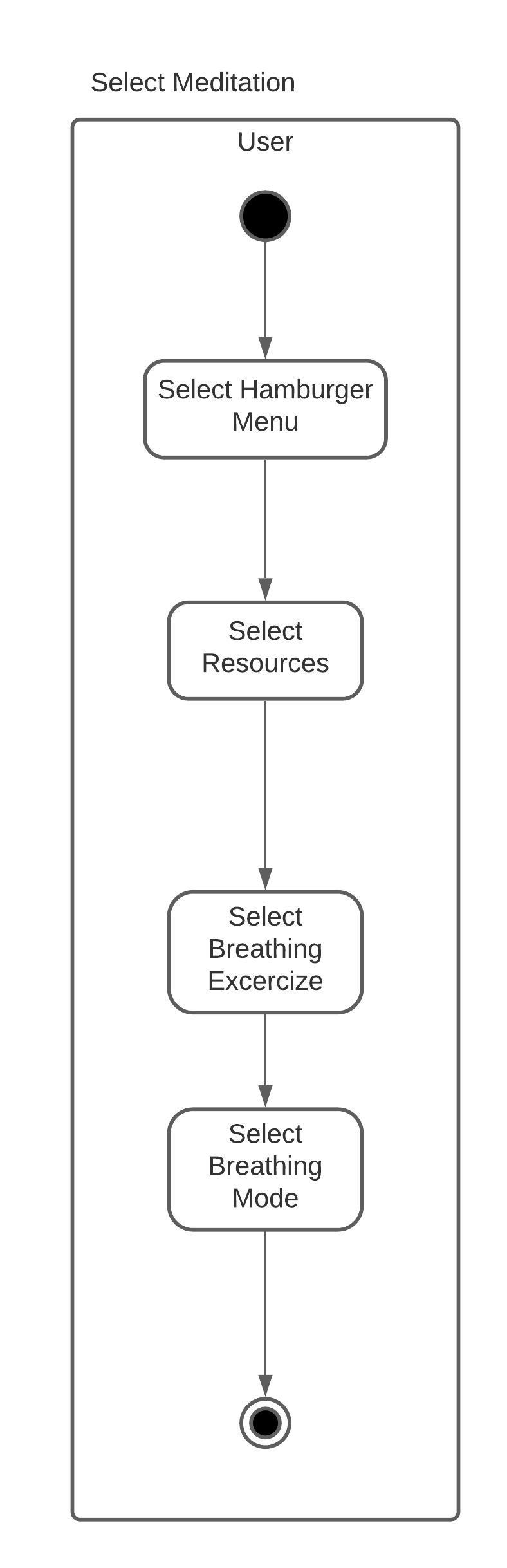
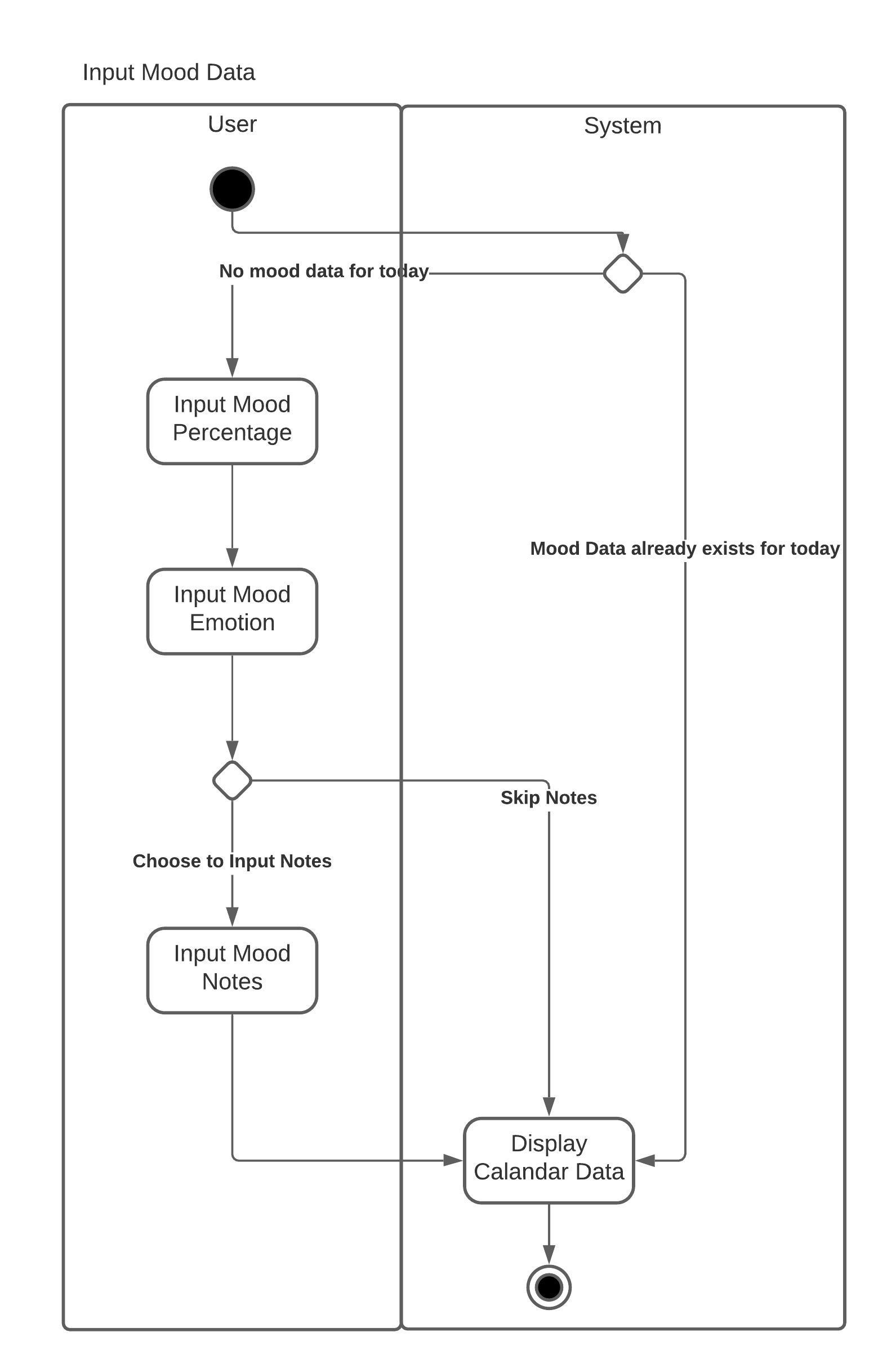








3.1.2 Business Use Case Diagram

3.1.3 Activity Diagrams 

3.1.4 Use Case Descriptions

Scenario 1: Create an account without error

Preconditions: User has just opened the application yet, and has internet access

|  |  |  |  |
| --- | --- | --- | --- |
|  | Actor (User) | System | Data Used |
| 1 | Chooses to create an account | Retrieves and displays blank form for account creation. |  |
| 2 | User enters required information, selects submit. | Verifies the information as correct, sends request to database to create account | User  name  email  password |
| 3 |  | Request is sent to database to create required tables, store account data, and creates login credentials |  |
| 4 |  | Re-directs user to their newly created account page. |  |

Scenario 2: Track Mood

Preconditions: User is logged into the system, and has internet access

|  |  |  |  |
| --- | --- | --- | --- |
|  | Actor (User) | System | Data Used |
| 1 | Opens the application for the first time in a 24-hour period. | Displays page to input mood data in percentage |  |
| 2 | Enters mood percentage | Stores mood percentage data locally | Mood  moodPercentage |
| 3 |  | Displays page to input mood data in emotion |  |
| 4 | Enters mood emotion | Stores mood emotion data locally | Mood  moodPercentage  moodEmotion |
| 5 |  | Displays page to input mood data in notes |  |
| 6 | Enters notes on mood | Stores mood note data locally | Mood  moodPercentage  moodEmotion  moodNotes |
| 7 |  | System sends request to sync data to database storage |  |
| 8 |  | Redirects user to home page |  |

Scenario 3: View Graph Data based on year successfully

Preconditions: User is logged into the application, has data stored to the cloud and has internet connection

|  |  |  |  |
| --- | --- | --- | --- |
|  | Actor (User) | System | Data Used |
| 1 | Selects hamburger menu | Displays list of options, including trends, resources, and sync to cloud |  |
| 2 | Selects trends | Displays list of options including insights and graphs |  |
| 3 | Selects graphs | Displays options including day, month, or year |  |
| 4 | Selects year | Retrieves graph logic and layout data |  |
| 5 |  | Sends request to database for data based on year | Mood  moodPercentage  moodEmotion  moodNotes |
| 6 |  | System retrieves database data and processes it, removes all data that is older than one year, sorts data from oldest to newest, removes blank entries |  |
| 7 |  | Retrieves stored graph layout from internal data, adds processed database data to the graph layout as line graph points, creates new graph using the graph layout and processed data |  |
| 8 |  | Displays generated graph to user |  |

Scenario 4: View Insight Data successfully

Preconditions: User is logged into the application, has data stored to the cloud and has internet connection

|  |  |  |  |
| --- | --- | --- | --- |
|  | Actor (User) | System | Data Used |
| 1 | Selects hamburger menu | Displays list of options, including trends, resources, and sync to cloud |  |
| 2 | Selects trends | Displays list of options including insights and graphs |  |
| 3 | Selects insights | Retrieves insight logic and layout data |  |
| 4 |  | Sends request to database for all mood data | Mood  moodPercentage  moodEmotion  moodNotes |
| 5 |  | System retrieves database data and processes it, sorts data from oldest to newest, removes blank entries, categories and processes entries based on insight point conditions (moodEmotion + day of week, most common moodEmotion entered, average of all moodPercentage data) |  |
| 6 |  | Retrieves insight layout from internal data, adds processed database data to the insight layout |  |
| 7 |  | Displays insights to user |  |

Scenario 5: Selects to view meditations successfully

Preconditions: User is logged into the application, has data stored to the cloud and has internet connection

|  |  |  |  |
| --- | --- | --- | --- |
|  | Actor (User) | System | Data Used |
| 1 | Selects hamburger menu | Displays list of options, including trends, resources, and sync to cloud |  |
| 2 | Selects resources | Displays list of options, including meditations and breathing exercises |  |
| 3 | Selects meditations | Retrieves user mood data from database | Mood  moodEmotion  moodNotes |
| 4 |  | Processes data, generating tags for user data based on moodNotes and moodEmotion | Mood  tags |
| 5 |  | Retrieves stored YouTube meditations based on matching user tags | Meditations  link  title  tags |
| 6 |  | Displays generated list of meditations to user |  |
| 7 | User selects mediations | Redirects user to external YouTube link |  |

Scenario 6: View sleep breathing exercises

Preconditions: User is logged into the application

|  |  |  |  |
| --- | --- | --- | --- |
|  | Actor (User) | System | Data Used |
| 1 | Selects hamburger menu | Displays list of options, including trends, resources, and sync to cloud |  |
| 2 | Selects resources | Displays list of options, including meditations and breathing exercises |  |
| 3 | Selects breathing exercises | Displays GIF using default timing, displays options to change timing | systemSettings  gifTitle  timingSetting |
| 4 | Selects sleep mode | Displays GIF using sleep timing, |  |

Scenario 7: Syncs data to cloud successfully

Preconditions: User is logged into the application and has internet connection

|  |  |  |  |
| --- | --- | --- | --- |
|  | Actor (User) | System | Data Used |
| 1 | Selects hamburger menu | Displays list of options, including trends, resources, and sync to cloud |  |
| 2 | Selects sync to cloud | System attempts to connect to database |  |
| 3 |  | System connected to database and sends data to cloud for storage | Mood  moodPercentage  moodEmotion  moodNotes |
| 4 |  | Database stores data according to database rules |  |
| 5 |  | System displays success message |  |

Scenario 8: User updates all profile picture successfully

Preconditions: User is logged into the application, has data stored to the cloud and has internet connection

|  |  |  |  |
| --- | --- | --- | --- |
|  | Actor (User) | System | Data Used |
| 1 | User selects account page | Retrieves and displays account data | User  name  email  profilePicture |
| 2 | User chooses to update profile picture | Allows selection of file from user files |  |
| 3 | Selects image file | Verifies file type is correct and uploads file to database |  |
| 4 |  | Database stores image based on database rules |  |
| 5 |  | Displays success message |  |

Scenario 9: User updates password successfully

Preconditions: User is logged into the application, has data stored to the cloud and has internet connection

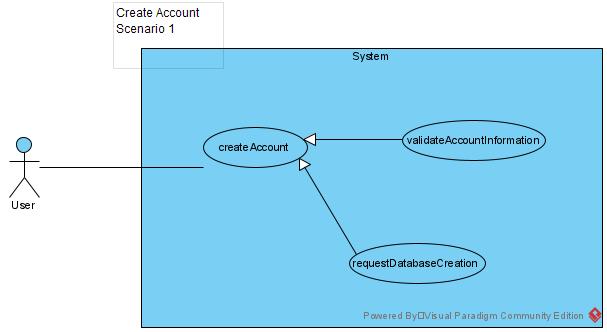
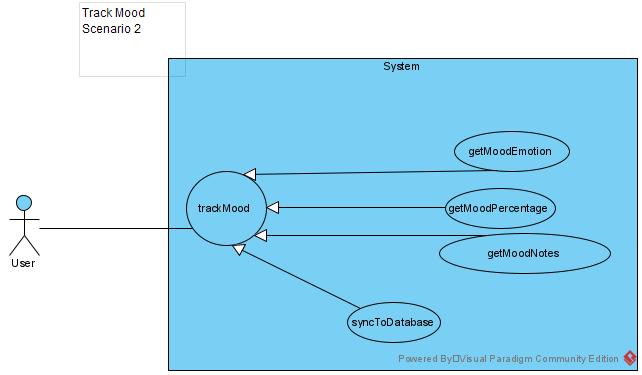
|  |  |  |  |
| --- | --- | --- | --- |
|  | Actor (User) | System | Data Used |
| 1 | User selects account page | Retrieves and displays account data | User  name  email  profilePicture |
| 2 | User chooses to update password | Displays inputs for old password, new password, and confirmation of new password |  |
| 3 | User inputs old password, new password, and confirmation of new password | Verifies field entry is correct and sends data to database | User  password  tmpPassword |
| 4 |  | Database checks that old password matches stored password in database with encryption and updates old password with new password |  |
| 5 |  | Displays success message |  |

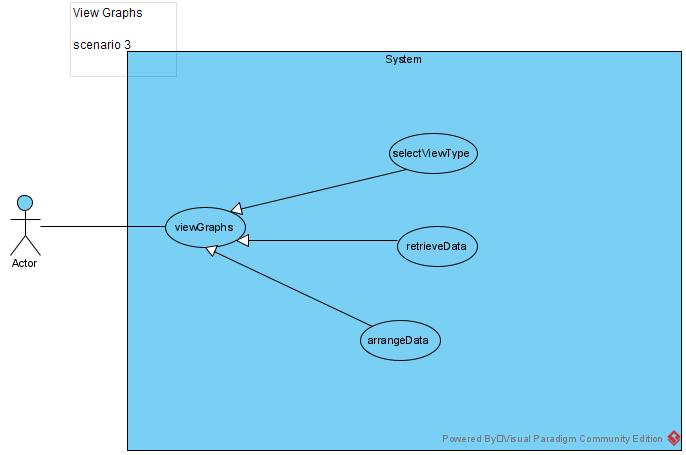
Scenario 10: User updates email successfully

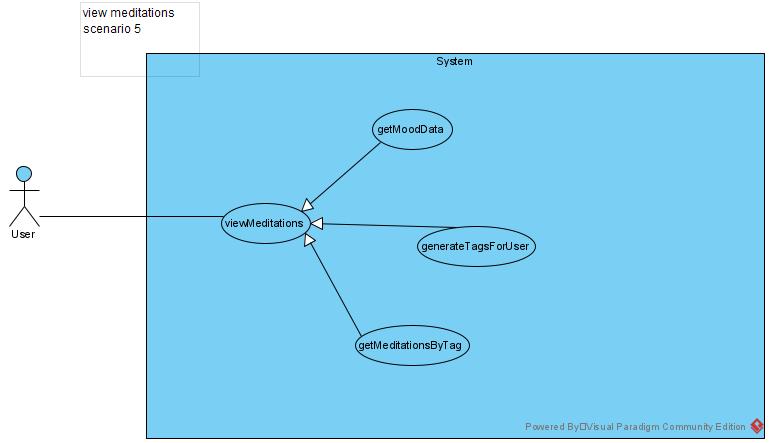
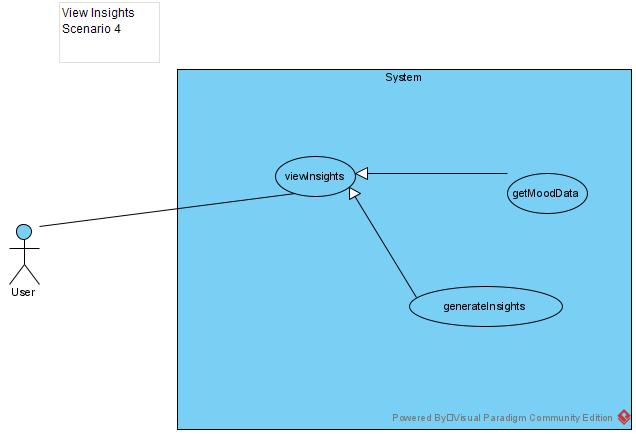
Preconditions: User is logged into the application, has data stored to the cloud and has internet connection

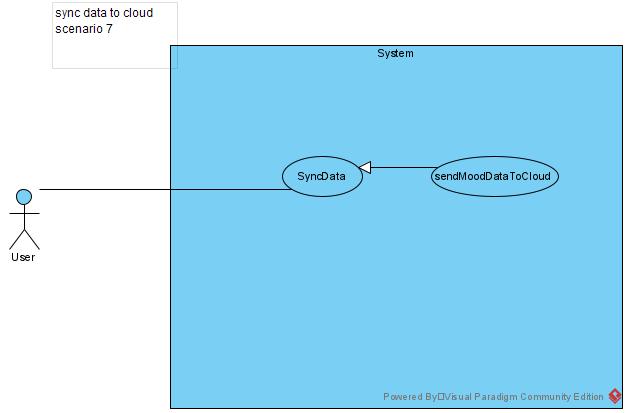
|  |  |  |  |
| --- | --- | --- | --- |
|  | Actor (User) | System | Data Used |
| 1 | User selects account page | Retrieves and displays account data | User  name  email  profilePicture |
| 2 | User chooses to update email address | Displays input for new email address |  |
| 3 | User enters new email address | Verifies email is valid and sends data to database |  |
| 4 |  | Database updates stored email address with new email address |  |
| 5 |  | Display Success message |  |

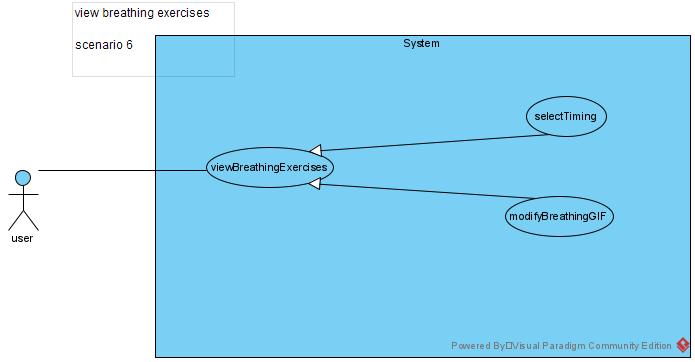
3.1.5 System Use Case Diagrams











## 

3.1.6 – class diagram

## 

## 3.1.7 System Use Case Descriptions

|  |  |
| --- | --- |
| UC01 | Register for Application |
| Actor | User (primary), Application (secondary) |
| Summary description | Allows any user to register for the Selfcare application |
| Priority | Must Have |
| Status | Medium level of details |
| Pre-Conditions | The user has downloaded and opened the application, and has an internet connection |
| Post-Conditions | * The user is registered and can login to the application * User details are stored in the cloud and passwords encrypted |
| Basic Path | 1. User selects register 2. System displays fields for name, email, and password 3. User enters details and selects submit 4. System validates that email is a valid email, password is a valid password and name is appropriate length 5. System sends details to database to be stored and encrypted based on database rules 6. System sends success email to user 7. System displays user’s homepage |
| Alternative Paths | 4a. User details are not valid  5a. Application is not connected to the internet   1. Database cannot communicate with the application 2. User does not respond to the application |
| Business Rules | BR01: Must provide name email and password  BR07: Password between 6-30 characters and include 1 uppercase and 1 number  BR08: Email must be valid email  BR11: Name must not be longer than 30 characters, no special characters  BR12: Email must be unique |
| Non-Functional Requirements | NF1: User data is encrypted |

|  |  |
| --- | --- |
| UC02 | Update Profile |
| Actor | User (primary), Application (secondary) |
| Summary description | Allows any registered user to update password, email, or profile photo using the application |
| Priority | Must Have |
| Status | Medium Level of details |
| Pre-Conditions | User must be logged in to application, be on the user profile page and have internet connection |
| Post-Conditions | * User’s details are updated * User homepage refreshed to display updated details * Updated data is stored and encrypted in the cloud |
| Basic Path | 1. User selects update profile 2. System displays fields for updating name, email, and profile information 3. User enters new password 4. System validated new password 5. System requests old password to make changes 6. User enters old password 7. System validates old password with database encryption 8. System sends new password to database for encryption and storage based on database rules 9. System Refreshes user profile page to display updated information |
| Alternative Paths | 3a. User chooses to upload new profile picture  3b. User chooses to update name  4a. New password invalid  7a. User is offline  7b. Users password does not match database password  9a. User is offline   1. Database cannot communicate with the application 2. User does not respond to the application |
| Business Rules | BR02: User must be logged in  BR07: Password between 6-30 characters and include 1 uppercase and 1 number  BR08: Email must be valid email  BR11: Name must not be longer than 30 characters, no special characters BR12  BR12:email must be unique |
| Non-Functional Requirements | NF1: User data is encrypted |

|  |  |
| --- | --- |
| UC03 | Sync to cloud |
| Actor | User (primary), Application (secondary) |
| Summary description | User can sync existing data to cloud platform where it will be stored and backed up |
| Priority | Must Have |
| Status | Medium Level of details |
| Pre-Conditions | User is logged in, has at least one tracked mood and has internet connection |
| Post-Conditions | * User data is backed up to the cloud successfully |
| Basic Path | 1. User selects hamburger menu 2. User selects sync to cloud 3. System verifies that user has flagged locally stored data available to sync 4. Systems connects to the database 5. System stores data according to database rules 6. System deletes flag from locally stored data 7. System displays success message |
| Alternative Paths | 3a. User has no flagged locally stored data  3b. User data is older than 5 years  4a. User is offline   1. Database cannot communicate with the application 2. User does not respond to the application |
| Business Rules | BR02: User must be logged in  BR05: Data older than 5 years will not be stored |
| Non-Functional Requirements | NF3: Database syncs and stores data in a timely manner (less than 30 seconds)  NF4: User data must not be older than 5 years |

|  |  |
| --- | --- |
| UC04 | Track Mood |
| Actor | User (primary), Application (secondary) |
| Summary description | User inputs information to track mood for specific day |
| Priority | Must Have |
| Status | Medium Level of details |
| Pre-Conditions | User must be logged into account, and have internet connection |
| Post-Conditions | * User has entered mood data and can view it on the home page * User mood data is stored in the database |
| Basic Path | 1. User opens the application for the first time in a 24-hr period 2. System displays enter mood percentage page 3. User enters mood percentage 4. System displays enter mood emotion page 5. User enters mood emotion 6. System displays enter mood notes 7. User enters mood notes 8. System validates notes information 9. System syncs data to cloud 10. System redirects user to homepage |
| Alternative Paths | 1a. User opens application more than once in 24-hr period  3a. User selects skip  5a. User selects skip  7a. User selects skip  8a. User has not entered notes data  9a. User has not inputted any mood data  9b. User is offline   1. Database cannot communicate with the application 2. User does not respond to the application |
| Business Rules | BR02: User must be logged in  BR03: Notes can not be longer than 500 characters |
| Non-Functional Requirements | NF3: Database syncs and stores data in a timely manner (less than 30 seconds) |

|  |  |
| --- | --- |
| UC05 | View Graphs |
| Actor | User (primary), Application (secondary) |
| Summary description | User can view graphs based on their mood data over time |
| Priority | Must Have |
| Status | Medium Level of details |
| Pre-Conditions | User must be logged into the application and must have at least one tracked mood stored to the cloud; user must have internet connection |
| Post-Conditions | * User can view a custom graph based on their mood data |
| Basic Path | 1. User selects hamburger menu 2. User selects Trends 3. User selects Graphs 4. User Selects Yearly 5. System check for flagged data to be synced to cloud 6. System finds and syncs data that is not synced to cloud 7. System retrieves mood data from cloud 8. System processes mood data by removing all entries older than one year 9. System processes mood data by sorting all entries from oldest to newest 10. System processes mood data by removing blank mood Percentage data 11. System retrieves locally stored graph layout data 12. System arranges sorted data on to visual graph layout 13. System saves the graph locally 14. System displays graph to user |
| Alternative Paths | 4a. User selects by week  4b. User selects by month  5a. User has no data saved  6a. System finds no data needing to by synced  7a. User is offline  8a. Removes all entries older than 1 week  8b. Removes all entries older than 1 month  10a. All data removed as there is no mood percentage data   1. Database cannot communicate with the application 2. User does not respond to the application |
| Business Rules | BR02: User must be logged in  BR04: Must have at least 1 mood recorded to use feature |
| Non-Functional Requirements | NF3: User data is retrieved in a timely manner (30 seconds or less) |

|  |  |
| --- | --- |
| UC06 | View insight data |
| Actor | User (primary), Application (secondary) |
| Summary description | User can view custom information points about their mood data |
| Priority | Must Have |
| Status | Medium Level of details |
| Pre-Conditions | User must be logged into the application and must have at least one tracked mood stored to the cloud; user must have internet connection |
| Post-Conditions | * User can view page of insights based on their mood data |
| Basic Path | 1. User selects hamburger menu 2. User selects Trends 3. User selects Insights 4. System check for flagged data to be synced to cloud 5. System finds and syncs data that is not synced to cloud 6. System retrieves mood data from cloud 7. System processes mood data by removing blank mood Percentage data, blank mood emotion data and blank mood notes data 8. System processes mood data by sorting all entries from oldest to newest 9. System processes mood data by calculating amount of days above 50% and amount of days under 50% 10. System processes mood data by calculating amount of days with each emotion 11. System processes data by calculating the average among mood percentage data 12. System sorts data by week, calculating most common emotion of the week 13. System arranges data into human readable strings and formats according to stored insight data 14. System displays insights to user |
| Alternative Paths | 5a. no data to sync to cloud  6a. no mood data in cloud  8a. no mood data that’s not blank  9a. no mood percentage data  10a. no mood emotion data  11a. no mood percentage data  12a. no mood data for current week  12b. no mood emotion data for current week   1. Database cannot communicate with the application 2. User does not respond to the application |
| Business Rules | BR02: User must be logged in  BR04: User must have one mood recorded to use feature  BR06: Data older than one year will not be processed |
| Non-Functional Requirements | NF3: User data is retrieved in a timely manner (30 seconds or less) |

|  |  |
| --- | --- |
| UC07 | View Meditations |
| Actor | User (primary), Application (secondary) |
| Summary description | User can view meditations generated for them based off mood data |
| Priority | Must Have |
| Status | Medium Level of details |
| Pre-Conditions | User must be logged into the application and must have at least one tracked mood stored to the cloud; user must have internet connection |
| Post-Conditions | * User can view meditations that are relevant to their mood data |
| Basic Path | 1. User selects hamburger menu 2. User selects Resources 3. User selects meditations 4. System retrieves mood data database 5. System processes data by removing blank mood emotions and mood notes 6. System processes data by searching for keywords in mood notes and storing the keywords as tags 7. System processes data by storing mood emotions as tags 8. System processes data by calculating average mood percentage data over 1 week and storing above 50% as high and lower than 50% as low 9. System retrieves meditations from database 10. System processes meditations by removing any meditation data that doesn’t match generated tags 11. System returns all matching tags and arranges them in list 12. System displays list to user |
| Alternative Paths | 4a. User is offline  6a. User has no mood emotion data stored  6b. User has no mood notes data stored  7a. User has no mood emotions stored  8a. User has no mood percentage stored  9a. User is offline  10a. No tags were generated   1. Database cannot communicate with the application 2. User does not respond to the application |
| Business Rules | BR02: User must be logged in  BR06: Data older than one year will not be processed |
| Non-Functional Requirements | NF3: User data is retrieved in a timely manner (30 seconds or less) |

|  |  |
| --- | --- |
| UC08 | View Breathing Exercise |
| Actor | User (primary), Application (secondary) |
| Summary description | User can view interactive breathing exercise module |
| Priority | Must Have |
| Status | Medium Level of details |
| Pre-Conditions | User must be logged into the application; |
| Post-Conditions | * User views breathing exercise |
| Basic Path | 1. User selects hamburger menu 2. User selects Resources 3. User selects Breathing exercises 4. System displays default breathing speed setting 5. User selects sleep mode 6. System retrieves sleep mode gif 7. System sets display to sleep mode 8. System displays sleep mode speed |
| Alternative Paths | 5a. User selects focus mode   1. Database cannot communicate with the application 2. User does not respond to the application |
| Business Rules | BR02: User must be logged in |
| Non-Functional Requirements |  |

## 3.2 Business Rules

|  |  |  |
| --- | --- | --- |
| Business Rule Number | Business Rule Description | Related UC |
| BR01 | User must provide a name, email, and password to register for the app. | UC01 |
| BR02 | User must be logged in to use all application features | UC02, UC03, UC04, UC05, UC06, UC07, UC08 |
| BR03 | Notes length can be no longer than 500 characters | UC04 |
| BR04 | User must have at least one mood day recorded to use insight and graph features | UC05, UC06 |
| BR05 | Data older than 5 years will not be saved in the database | UC03 |
| BR06 | Data older than 1 year will not be processed in insights or generated meditations | UC06, UC07 |
| BR07 | Password must be between 6 and 30 characters long and include one uppercase letter and one number | UC01, UC02 |
| BR08 | Email must be a valid email | UC01, UC02 |
| BR09 | User may request password reset on login page after 2 failed login attempts |  |
| BR10 | Password reset will be a temporary password emailed to registered email address |  |
| BR11 | Name must be no longer than 30 characters, with no special characters | UC01, UC02 |
| BR12 | Email must be unique | UC01, UC02 |

## 3.3 Risks

|  |  |
| --- | --- |
| Risk | Response |
| The use of Voice Recognition adds complexity, introducing more ways to hack into your device | Implement various security measures and keep code modular in order to reduce complexity and increase security |
| Some of the team members are not familiar with Android Studio (IDE used to develop Android apps) | Hold team sessions to go over the IDE and how to initialize an APK for app testing /  or the whole team will meet twice a week to complete video tutorials related to . . . |
|  |  |
|  |  |
|  |  |
|  |  |

## 3.4 Constraints

## 3.5 Operating Environment

## 

# 

# 4. Database

## 4.1. Scripts to create, populate, delete tables

Diagram

Description automatically generated

### 4.1.1. Scripts to create tables

CREATE TABLE Graph(

GraphID int AUTO\_INCREMENT,

Email varchar(25),

GraphSettings int,

recentGraphView varchar(30)

PRIMARY KEY(ID)

FOREIGN KEY(Email) REFERENCES User(Email)

);

CREATE TABLE User(

Email varchar(25),

UserTagID int AUTO\_INCREMENT,

Password varchar(20),

ProfilePicture varchar(30),

Name varchar(30),

PRIMARY KEY(Email)

FOREIGN KEY (UserTagID) REFERENCES UserTag(TagID)

);

CREATE TABLE UserTag (

TagID int AUTO\_INCREMENT,

Tag varchar(15),

PRIMARY KEY(TagID, Tag),

FOREIGN KEY(Tag) REFERENCES Tag(Tag)

);

CREATE TABLE Tag(

Tag varchar(15),

PRIMARY KEY(Tag)

);

CREATE TABLE Meditation(

Link varchar(50),

Tag varchar(15),

Title varchar(50),

PRIMARY KEY(Link),

FOREIGN KEY(Tag) REFERENCES Tag(Tag)

);

CREATE TABLE Mood(

Date Date,

Email varchar(25),

MoodTagID int AUTO\_INCREMENT,

MoodPercentage int,

MoodEmotion varchar(15),

MoodNotes varchar(200),

PRIMARY KEY(Date),

FOREIGN KEY(Email) REFERENCES User(Email),

FOREIGN KEY(MoodTagID) REFERENCES UserTag(TagID)

);

CREATE TABLE BreathingExcercise(

ExcerciseID int AUTO\_INCREMENT,

Email varchar(25),

TimingSetting varchar(15),

GifTitle varchar(30),

PRIMARY KEY(ExcerciseID),

FOREIGN KEY(Email) REFERENCES User(Email),

);

### 4.1.2. Scripts to populate tables (meaningful data)

INSERT INTO GRAPH (GraphSettings, recentGraphView, Email)

VALUES ('week', 'graph1.jpg', 'smaciver1@myseneca.ca');

INSERT INTO GRAPH (GraphSettings, recentGraphView, Email)

VALUES ('month', 'graph2.jpg', 'smaciver1@myseneca.ca');

INSERT INTO GRAPH (GraphSettings, recentGraphView, Email)

VALUES ('year', 'graph3.jpg', 'smaciver1@myseneca.ca');

INSERT INTO BreathingExcercise (Email, Timing, GifTitle)

VALUES ('smaciver1@myseneca.ca', 'default', 'default.gif');

INSERT INTO BreathingExcercise (Email, Timing, GifTitle)

VALUES ('smaciver1@myseneca.ca', 'sleeping', 'sleeping.gif');

INSERT INTO BreathingExcercise (Email, Timing, GifTitle)

VALUES ('smaciver1@myseneca.ca', 'focus', 'focus.gif');

INSERT INTO Meditation(Link, Tag, Title)

VALUES ('https://www.youtube.com/watch?v=inpok4MKVLM', 'general', '5 Minute Anywhere Meditation' );

INSERT INTO Meditation(Link, Tag, Title)

VALUES ('https://www.youtube.com/watch?v=U9YKY7fdwyg', 'general', '10 Minute Beginners Meditation');

INSERT INTO Meditation(Link, Tag, Title)

VALUES ('https://www.youtube.com/watch?v=j7d5Plai03g', 'general', '10 Minute Daily Meditation');

INSERT INTO Meditation(Link, Tag, Title)

VALUES ('https://www.youtube.com/watch?v=ENYYb5vIMkU', 'general', '10 Minute Start your Day Meditation');

INSERT INTO Meditation(Link, Tag, Title)

VALUES ('https://www.youtube.com/watch?v=itZMM5gCboo', 'general', '10 Minute Self Love Meditation');

INSERT INTO Meditation(Link, Tag, Title)

VALUES ('https://www.youtube.com/watch?v=xRxT9cOKiM8', 'depression', '10 Minute Depression Meditaion');

INSERT INTO Meditation(Link, Tag, Title)

VALUES ('https://www.youtube.com/watch?v=O3Ku-cpdSJM', 'depression', '21 Minute Depression Meditation');

INSERT INTO Meditation(Link, Tag, Title)

VALUES ('https://www.youtube.com/watch?v=d3xTelxky9A', 'depression', '10 Minute Depression Meditaion');

INSERT INTO Meditation(Link, Tag, Title)

VALUES ('https://www.youtube.com/watch?v=aEqlQvczMJQ', 'sleep', '10 Minute Sleep Meditation');

INSERT INTO Meditation(Link, Tag, Title)

VALUES ('https://www.youtube.com/watch?v=ZgPHetPG4MY', 'sleep', '10 Minute Before Sleep Mediitation');

INSERT INTO Meditation(Link, Tag, Title)

VALUES ('https://www.youtube.com/watch?v=5itkfGLcb5E', 'sleep', '12 Minute Let Go of the Day Meditation');

INSERT INTO Meditation(Link, Tag, Title)

VALUES ('https://www.youtube.com/watch?v=aZoZguD\_UwE', '10 Minute Sleep Meditation');

INSERT INTO Meditation(Link, Tag, Title)

VALUES ('https://www.youtube.com/watch?v=O-6f5wQXSu8', 'anxiety', '10 Minute Anxiety Meditaion');

INSERT INTO Meditation(Link, Tag, Title)

VALUES ('https://www.youtube.com/watch?v=z6X5oEIg6Ak', 'anxiety', '10 Minitue Stress Meditation');

INSERT INTO Meditation(Link, Tag, Title)

VALUES ('https://www.youtube.com/watch?v=sG7DBA-mgFY', 'anxiety', '10 Minute Reframe Stress Meditation');

INSERT INTO Meditation(Link, Tag, Title)

VALUES ('https://www.youtube.com/watch?v=wkse4PPxkk4', 'anger', '10 Minute Anger Meditation');

INSERT INTO Meditation(Link, Tag, Title)

VALUES ('https://www.youtube.com/watch?v=cZJAsW\_5SRA', 'anger', '10 Minute Frustration Meditation');

INSERT INTO Meditation(Link, Tag, Title)

VALUES ('https://www.youtube.com/watch?v=fgkqLWg2B9o', 'anger', '10 Minute Anger Meditation');

INSERT INTO Meditation(Link, Tag, Title)

VALUES ('https://www.youtube.com/watch?v=v-l0Tj0PdfM', 'sad', '10 Minute Sadness Meditaion');

INSERT INTO Meditation(Link, Tag, Title)

VALUES ('https://www.youtube.com/watch?v=ug26l-2ktxA', 'sad', '8 Minute Sadness Meditaion');

INSERT INTO Mood (Date, Email, MoodPercentage, MoodEmotion, MoodNotes)

VALUES (GETDATE(), 'smaciver1@myseneca.ca', 25, 'depressed', 'I feel depressed today');

INSERT INTO Mood (Date, Email, MoodPercentage, MoodEmotion, MoodNotes)

VALUES (GETDATE(), 'smaciver1@myseneca.ca', 76, 'happy', 'I found 5 dollars today');

INSERT INTO Mood (Date, Email, MoodPercentage, MoodEmotion, MoodNotes)

VALUES (GETDATE(), 'smaciver1@myseneca.ca', 65, 'anxious', 'I had a big exam today');

INSERT INTO Mood (Date, Email, MoodPercentage, MoodEmotion, MoodNotes)

VALUES (GETDATE(), 'smaciver1@myseneca.ca', 12, 'sad', 'I am having a hard time sleeping');

INSERT INTO User(Email, Password, ProfilePicture, Name)

VALUES("smaciver1@myseneca.ca","KJSDF7843HDGF3G263RTFG3", "scott.jpg", "Scott M");

INSERT INTO User(Email, Password, ProfilePicture, Name)

VALUES("sbragg@myseneca.ca","DKJSF32785Y8HGF78DFG843TG6", "skye.jpg", "Skye B");

INSERT INTO User(Email, Password, ProfilePicture, Name)

VALUES("bugs@bunny.ca","KJSJHDSFG7843HJKG4387G3G263RTFG3", "bugsbunny.jpg", "Bugs Bunny");

INSERT INTO UserTag(Tag)

VALUES ("sad");

INSERT INTO UserTag(Tag)

VALUES ("depressed");

INSERT INTO UserTag(Tag)

VALUES ("happy");

INSERT INTO UserTag(Tag)

VALUES ("general");

INSERT INTO UserTag(Tag)

VALUES ("anxious");

INSERT INTO UserTag(Tag)

VALUES ("angry");

INSERT INTO UserTag(Tag)

VALUES ("sleep");

INSERT INTO UserTag(Tag)

VALUES ("stress");

### 4.1.3 Scripts to delete tables

DROP TABLE Meditations;

DROP TABLE Mood;

DROP TABLE Graph;

DROP TABLE BreathingExcercise;

DROP TABLE User;

DROP TABLE UserTag;

DROP TABLE Tag;

## 4.2. Data Dictionary

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Field Name** | **Table** | **Data Type** | **Length** | **Read Only?** | **NULL** | **Required** | **Description** |
| GraphID | Graph | int | int | no | no | yes | Displays id of the graph |
| Email | Graph | varchar | 25 | no | no | yes | Displays users’ email |
| GraphSettings | Graph | varchar | 20 | no | no | yes | Displays users graph settings |
| recentGraphView | Graph | varchar | 30 | no | no | yes | Image file path for previous graph view |
| Email | User | Varchar | 25 | No | No | Yes | Users email address |
| UserTagID | User | int | Int | No | No | Yes | Auto generated field ID for users’ tags |
| Password | user | Varchar | 20 | No | No | Yes | Users password |
| ProfilePicture | User | Varchar | 30 | No | Yes | No | File image path for profile picture |
| Name | user | varchar | 30 | no | no | Yes | Users name |
| TagID | UserTag | Int | int | No | no | Yes | An auto generated tagID to associate tags with a user |
| Tag | UserTag | varchar | 15 | No | no | No | Specific tag name (ie. Depression, sad, anxious etc.) |
| Tag | Tag | varchar | 15 | No | no | No | Specific tag name (ie. Depression, sad, anxious etc.) |
| Link | Meditation | Varchar | 50 | No | no | Yes | URL for the video |
| Tag | Meditation | Varchar | 15 | No | No | Yes | Specific tags associated to the video |
| Title | Meditation | varchar | 50 | no | No | yes | Title of the video |
| Date | Mood | Date |  | No | No | Yes | Date of the mood note |
| Email | Mood | Varchar | 25 | No | No | Yes | Users email |
| MoodTagID | Mood | Int | Int | No | No | Yes | Auto ID to get tags |
| MoodPercentage | Mood | Int | Int | No | No | Yes | User entered mood percentage |
| MoodEmotion | Mood | Varchar | 15 | No | No | Yes | User entered emotion |
| MoodNotes | Mood | varchar | 200 | no | yes | no | User entered mood notes |

# Implementation Schedule for PRJ666

## Work Breakdown Structure

Graphical user interface

Description automatically generated

Original File is posted in Microsoft Teams with the Final SRS document

## 5.2 Implementation Schedule using MS Project

![Graphical user interface, table

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDsRXhpZgAATU0AKgAAAAgABAE7AAIAAAALAAAISodpAAQAAAABAAAIVpydAAEAAAAWAAAQzuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFNreWUgQnJhZ2cAAAAFkAMAAgAAABQAABCkkAQAAgAAABQAABC4kpEAAgAAAAMzNQAAkpIAAgAAAAMzNQAA6hwABwAACAwAAAiYAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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# Measurable deliverables

Track Mood Emotion The system will track user’s emotion based off user selection.

Track Mood Percent The system will track the percentage of the user’s mood via input scale.

Track Mood Notes The system will store and accept input on the user’s mood up to 500 characters.

User Login The system will allow creation of user login data internally and within the database.

Update Profile The system will allow users to update profile information.

View Graphs The system will generate and display a line graph using user data, based on user chosen settings.

View Insights The system will insert user data into insight sentences upon request.

View Meditations The system should display meditations based off of keywords associated with the user.

Generate Key Words The system will process data from user notes and generate a list of keywords for the user.

Breathing Exercises The system will display GIF for associated breathing mode, based on user selection.

Sync to Cloud The system should check database data against local data and update database with new local data accordingly.

# Acceptance Criteria

Track User Emotion Users should be able to select their emotion from a list of emotions

Track Mood Percent User should be able to input mood percentage using a sliding scale

Track Mood Notes User should be able to add notes to daily mood tracking

User Login User should be able to create an account and login

Update Profile User should be able to update profile information

View Graphs User should be able to view a line graph based on their data

View Insights User should be able to view insights based on their data

View Meditations User should be able to view a list of relevant mediations generated from user data

Generate Key Words The user will have a list of keywords associated with their recent mood data

Breathing Exercises User should be able to view a breathing gif based on selection

Sync to Cloud User should be able to choose to sync local data to cloud

# Client / Faculty Sign-off

Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

X .

Name of Client/Rep/Professor

Company Name