

Project Deliverable 2: CSII 3471 group 3

1. UC-1 Create Account (General User/Trainer): User provides username and password. System validates uniqueness and creates profile. Alt: username already taken.
2. UC-2 Log In (All Roles): User submits credentials. System authenticates and routes to appropriate dashboard. Alt: invalid credentials.
3. UC-3 Log Daily Data: User enters calories, weight, sleep. System stores entries, validates units/ranges, and allows edit/delete for same day
4. UC-4 Record Workout: User records workout (type, duration, calories). System saves and updates progress toward goals.
5. UC-5 Search Self-Paced Plans: User browses/filters plans (level, equipment, duration). System returns results; user adds plan to account.
6. 6. UC-6 Search & Register for Class: User views classes, checks prerequisites/capacity, registers. Alt: waitlist or error if full/unqualified.
7. UC-7 Attend Class Session: At class time, user joins/attends. System marks attendance and logs session completion.
8. UC-8 Set Goals & View Reports: User sets daily/weekly/monthly goals and date ranges. System computes progress and shows trends/history.
9. UC-9 Trainer Creates/Modifies Plan or Class: Trainer defines/updates plan/class (schedule, capacity, prerequisites, equipment). System publishes updates.
10. UC-10 Admin User Management: Admin views users/trainers adds user, resets password. System enforces audit trail.

Project Deliverable 3: CSI 3471 Group 3 (OsoFit)

OsoFit

Health and Fitness App
Version:1.0
Date 14-Sept-2025

1. Introduction

The purpose of this document is to outline the vision, objectives, and high level requirements for the OsoFit app. This application will aim to allow users to monitor, track, and improve their health and fitness journey via tracking, goal setting, and reporting features. It will also incorporate social and trainer-led functionality to enhance the user experience.

2. Positioning

2.1 Problem Statement:

The problem of inconsistent health tracking and structured goal monitoring which affects both individuals that want a better solution for striving for a healthier lifestyle, and trainers who are looking for better access to clients. The impact of the problem is ill-managed health and fitness routines that lack proper guidance and tracking.

A successful solution would do the following:

- Platform that provides a space for tracking calories, weight, sleep, and exercise
- Personalized goal-setting and progress monitoring
- Trainer-led and self paced exercise plans
- Social features that allow for accountability and support

2.2 Product Position statement

For Health focused individuals and trainers

Who need a health and fitness management tool

The OsoFit app is a mobile application

That allows users to track health metrics, set goals, and track exercises

Unlike other fitness trackers that don't unify all these goals

Our product integrates health tracking, exercise programs, goal reporting, and social accountability into a single platform

3. Stakeholder and User Descriptions

3.1 Stakeholder Summary

- General Users: individuals using the app for personal tracking
- Trainers: Professionals creating exercise plans and leading classes
- Admins: System administrators managing access, accounts, and security

3.2 User Summary

- General Users: Tracks daily health log, logs workouts, and joins classes
- Trainer: Creates plans, schedule classes, monitors participant progress
- Admin: Manages system users, resets passwords, and maintains system

3.3 User Environment

- Accessible via mobile and desktop platforms
- Easy to use interface and tracking methods

3.4 Summary of Key Stakeholder or User Needs

- Easy and intuitive logging of daily health data
- Visual dashboards to track progress over time

- Structured training plans
 - Administrative tools for account management/security
 - Social features for community engagement
- 3.5 Alternatives and Competition
- Competitors: fitbit, whoop, strava
 - Weakness of competitors: lack of unifying all our goals
 - Our advantage: unified app with health, fitness, and goal tracking
4. Product Overview
- 4.1 Product Perspective
- The product is a standalone application.
- 4.2 Assumptions and dependencies
- Assumes user access to smartphones or desktops
 - Assumes internet connectivity for syncing progress
 - dependency on secure authentication systems
5. Product Features
- User Management: Account creation, login, password reset
 - Health tracking: log calorie intake, weight, and sleep
 - Fitness tracking: Record workouts, daily steps, calories burned
 - Goals and Reporting: Set daily/weekly/monthly goals, and view historical data
 - Trainer tools: create and manage plans and scheduled classes
 - Class management: attendance, registration, session hosting
 - Social features: Friend Users and join groups
6. Other Product Requirements:
- Platform: Mobile app
 - Performance: real time syncing

Use Cases:

- Jack Fontenot:
 - 1. Brief: Changing User/Trainer Password
 - A user or trainer needs to change or reset their password. The user/trainer clicks “change password” in either the login screen or profile page. An email is sent to their email with a link to reset their password. The user/trainer enters their new password, and the system changes the user’s/trainer’s password on their account. The system signs out the user/trainer and they must log back in with their new password.
 - 2. Brief: User Logging Calories and Nutritional Macros
 - A user has consumed a meal and needs to log the meal. The user enters the total amount of calories and the amount in grams of carbohydrates, fat, and protein of the meal. The system will subtract the meal’s calories from the user’s daily allotted calories and add the nutritional macros towards the user’s daily macro goals. The user presses “confirm meal” and the change is saved.
 - 3. Brief: User Logs Injury
 - A user is injured and needs to record the injury on the app. The user clicks “Record Injury” and enters the injury type, pain level of the injury, activities that aggravate the injury, and how the injury was obtained. The system logs the injury and updates their trainer’s view of the user. The trainer can use this information to update the user’s workout plan.
- Savannah Johnson:
 - Brief: Logging weight
 - A user wants to log their current weight and update progress. The user clicks “Record weight” and enters their current weight and preferred unit of measurement, as well as the date for the entry. The system validates the units and range, then stores the weight entry and updates progress. The user is able to edit or delete an entry on the same day, and can view their weight progress history.
 - Brief: Register for a class
 - A user wants to register for a class. The user clicks “View classes,” browses the list of classes available and selects a certain class. The user checks the prerequisites/capacity of the class, and registers for the class if the user qualifies and capacity is not full. If there is no space available, the user may choose to be put on a waitlist and will be notified when there is an availability. The system displays an error if the user is unqualified for the selected class, or if the class is full and there is no waitlist available.
 - Brief: Attend a class

- A user is attending a class session and wants to log their attendance. At class time, the user clicks “Join class,” selects the class they registered for, and enters the session. The system marks the user’s attendance as present. The system logs the session as complete after the class has ended, and the user can view their completed session history.

- Mason Baxter:
 - Brief: Tracking Sleep
 - A user wants to log an amount of sleep they had. The user clicks “Record Sleep”, and enters the amount of sleep they had, as well as rating the quality of sleep they had on a scale from one to ten. The system validates the entries and range, then stores the amount of and quality of sleep. If the user had created any sleep goals, the system updates these goals with this new information. The user can edit or delete entries within twenty four hours, and can view their sleep history.
 - Brief: Setting Sleep Goals
 - A user would like to set a personal goal for sleep. The user clicks “Sleep Goals”, and is taken to a page where they can view and manage their sleep goals. The user clicks “Create Sleep Goal” and can choose to either create a daily, weekly, or monthly goal. The user inputs how much sleep to set as the goal for this time period, as well as if this amount of sleep should be of a certain quality. The system then validates the entries and ranges, stores the goals, and adds them to the list of all sleep goals.
 - Brief: Viewing Sleep History
 - A user wishes to view their sleep history. The user clicks “Sleep History”, and is taken to a page containing their logged sleep information over the past week. The user clicks “past 30 days” to view their logged sleep information over the previous thirty days, and opts not to view information for the thirty days before that. The user clicks “Previous Sleep Goals” which allows them to see the sleep goals they had set and completed during this time period.

- Ethan Rogers:
 - Brief: Sending a Friend Request
 - A user wants to send a friend request to another user. The user will navigate to the “Social” menu. In the “Friends” area, the user will click “Add Friend”, enter the username of the other user, and submit the request. If the specified user exists in the system, the system notifies the other user that they have a new friend request. If the specified user does not exist, it will instead display an error for the sender.
 - Brief: Accepting a Friend Request

- A user wants to accept a friend request from another user. The user can either view the friend request from their notifications or they can navigate to the “Social” menu and view their friend requests from the “Friend Requests” area. They need to select this notification to respond. If they accept the friend request, the system will record that both users are friends with each other. If they reject the request, the notification is dismissed.
- Brief: Adding users to a Group
 - A user wants to add one or more friends to a group. The user will navigate to the “Social” menu. In the “Groups” area, the user will select the desired group, and click the “Add to Group” button. A list of their friends that are not already in the group will appear. The user can select any number of users on this list to add to the group and click submit. The system will add these selected users to the group.
- Dannis Wu:
 - Full-dressed: Create a Self-Paced Exercise Plan
 - **ID UC** Create a Self-paced Plan
 - Scope** Health & Fitness system
 - Level** user goal
 - Stakeholders and interests**
 - Customer (General user) — person that uses plans to exercise safely.
 - Trainer — person who creates and manages exercise plans/classes.
 - Admin — person checking content follows policy.
 - System maintainer — person responsible for application run.
 - **Precondition:** Trainer is authenticated.
 - Postcondition:** Plan is saved (draft or published).
 - **Main success scenario:**
 - 1. trainer wants to create a self-paced plan.
 - 2. trainer opens **Create plan** page.
 - 3. system shows plan form.
 - 4. trainer fills basic info: title and description.
 - 5. trainer selects required equipment.
 - 6. trainer selects recommended fitness level.
 - 7. trainer enters average session length.
 - 8. trainer enters suggested frequency (e.g., 3 times per week).
 - 9. (optional) trainer adds media/tags/safety notes.
 - 10. trainer chooses **Publish**.
 - 11. system validates all fields.
 - 12. system saves plan and confirms success.
 - **Alternate paths:**
 - a.* anytime system does not respond — system autosaves draft; trainer will try again.

3.a form cannot load — system shows error; trainer will refresh or come back later.

11.a some required field is empty or invalid — system highlights fields; trainer fixes and goes to step 10.

10.a trainer chooses **Save as draft** — system saves draft; plan is not visible to users.

11.b duplicate title detected — system suggests rename; trainer picks a new title and goes to step 10.

11.c policy keywords found — system marks **Pending review**; trainer is notified.

12.a network failure on save — system keeps local draft and shows warning.

- Fully-dressed: Create and Register a Scheduled Class

- **ID UC** Create and Register a Scheduled Class

Scope Health & Fitness system

Level user goal

Stakeholders and interests

Customer (General user) — person that wants clear time, level, prerequisites, and seats.

Trainer — person who schedules, hosts, and manages the class.

Admin — person ensuring limits and policies are respected.

System maintainer — person responsible for application run.

- **Precondition:** Trainer is authenticated.

Postcondition: Class is saved (draft or published) with schedule and capacity.

- **Main success scenario:**

- 1. trainer wants to create a scheduled class.
- 2. trainer opens **Create class** page.
- 3. system shows class form.
- 4. (optional) trainer links an existing plan as curriculum.
- 5. trainer fills title and description.
- 6. trainer sets date/time, days of week, session length, and number of weeks.
- 7. trainer selects delivery mode (in-person location or online link).
- 8. trainer sets enrollment limit (max participants).
- 9. trainer sets recommended fitness level and prerequisites (recommended or required).
- 10. trainer lists required equipment.
- 11. trainer chooses **Publish**.
- 12. system validates fields and checks for schedule conflict with trainer's other classes.
- 13. system saves class (and recurrence), opens registration, and confirms success.

- **Alternate paths:**
 - a.* anytime system does not respond — system autosaves draft; trainer will try again.
 - 7.a online link cannot be generated — system asks trainer to paste a link; continue to step 11.
 - 8.a enrollment limit missing — system applies default; trainer may edit before step 11.
 - 9.a prerequisites marked “required” but empty — system blocks publish; trainer fills and goes to step 11.
 - 12.a conflict with another class — system shows conflict list; trainer edits schedule and returns to step 11.
 - 11.a trainer chooses **Save as draft** — class saved as draft; not visible for registration.
 - 12.b policy issue detected — class set to **Pending review**; trainer notified.
 - 13.a storage/network error — keep local draft and show warning.

- Brief: UC Trainer Start & End Class Session

- A Trainer needs to host a scheduled class session. The trainer will log in to the system and open Today’s Classes so he/she can find the correct class. The trainer will select the class and press **Start Session**; the system will open the roster and show attendance controls and, if online, the meeting link. As participants join, the trainer will check each person’s registration and prerequisites and then mark attendance; if the class is full or a participant does not meet a required prerequisite, he/she will not be admitted and the system will show a message. Late participants can be admitted if seats remain, otherwise they are placed on a waitlist for this session. If no one joins within the grace period, or there is a technical issue, the trainer may cancel the session and the system will notify registered users. When the workout is finished, the trainer will press **End Session**; the system will save attendance, duration, and optional notes, update class statistics, and close the session.

- Connor Griffin

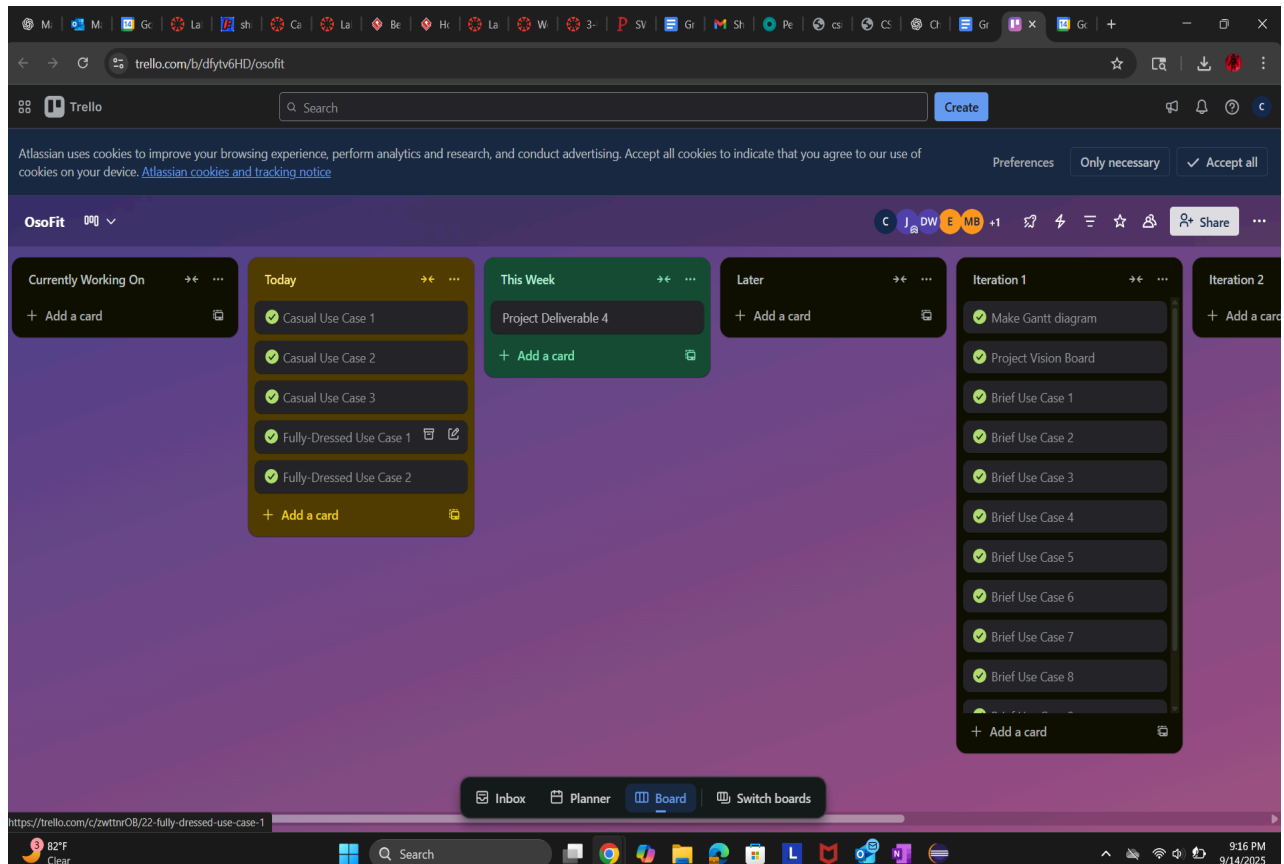
- Casual 1:

- Main success scenario: A user finishes their workout and wants to log it for the day. They log in to the system and navigate to the “Workout” section of the app. On this page, they select the type of workout from a list of options such as cardio, strength training, yoga, or custom. They enter the duration of the workout, the estimated calories burned, and, if desired, some notes about how the workout felt. Once all the fields are filled out, the user clicks “Save Workout.” The system stores the workout details and automatically updates the user’s dashboard, which now

reflects the new calories burned, progress toward weekly exercise goals, and overall activity history. The user can view this updated summary immediately.

- Alternate scenario: The user tries to log a workout, but they accidentally leave out the workout type. The system gives an error message and highlights the missing field. Once the user fills it in, they can save successfully.
- Alternate scenario: The system is temporarily down when the user tries to log the workout. The system shows a message saying it cannot connect. The user waits a few minutes and then tries again. If the issue persists, the user may note the workout offline and enter it later.
- Casual 2:
 - Main success scenario: A user decides they want to follow a structured exercise plan created by a trainer. They log in and browse through the catalog of self-paced plans. Each plan shows details such as difficulty level, required equipment, recommended fitness level, and average session length. The user reviews a few options and selects one that fits their goals. They click “Join Plan” and the system confirms that the plan has been added to their account. The plan now appears on the user’s dashboard, and they can begin accessing workout instructions and tracking their progress immediately.
 - Alternate scenario: The user tries to join a plan but has not logged in. The system asks them to log in first. After logging in, they can successfully add the plan
 - Alternate scenario: The user tries to join a plan but the trainer has marked it as “Pending Review”. The system shows a message that the plan is not available yet. The user can choose another plan or wait until this one is approved.
- Casual 3:
 - Main success scenario: A user forgets their password and is unable to log in. From the login screen, they click the “Forgot Password” option. The system asks for the user’s registered email address. After entering their email, the system sends a password reset link to that address. The user opens their email inbox, clicks on the reset link, and is taken to a secure page where they can enter a new password. Once the new password is submitted, the system confirms the change and prompts the user to log in again. The user uses the new password to log in and successfully regains access to their account.
 - Alternate Scenario: The user enters an email address that does not match any account in the system. The system displays an error message explaining that no account is associated with that email. The user rechecks their spelling, realizes they mistyped the address, and enters the correct one to proceed successfully.

- Alternate Scenario: The user receives the reset email but does not click the link until hours later, at which point the link has expired. The system displays an “Invalid or expired link” message and gives the user an option to request a new reset email. The user clicks to resend the link, opens the fresh email right away, and completes the password reset successfully.



Project Deliverable 4: CSI 3471 Group 3 (OsoFit)

Use Cases:

Jack Fontenot

1. Fully-dressed

ID UC Change User/Trainer Password

Scope Login system

Level User goal

Stakeholders and interests

User

- Person that forgot or needs to change their password to track their fitness goals.

Trainer

- Person that forgot or needs to change their password to assist users.

System admin

- Person responsible for login system run

Precondition: Password change is requested.

Postcondition: System updates the account's password.

Main success scenario:

1. User/trainer forgets their password
2. User/trainer clicks "forgot password?"
3. User/trainer enters their email and clicks "Send password reset link"
4. User/trainer clicks the link in their email
5. User/trainer enters the updated password into the "new password" and "confirm new password" boxes
6. User/trainer clicks "update password"
7. System saves the account's new password
8. User/trainer logs in with new password

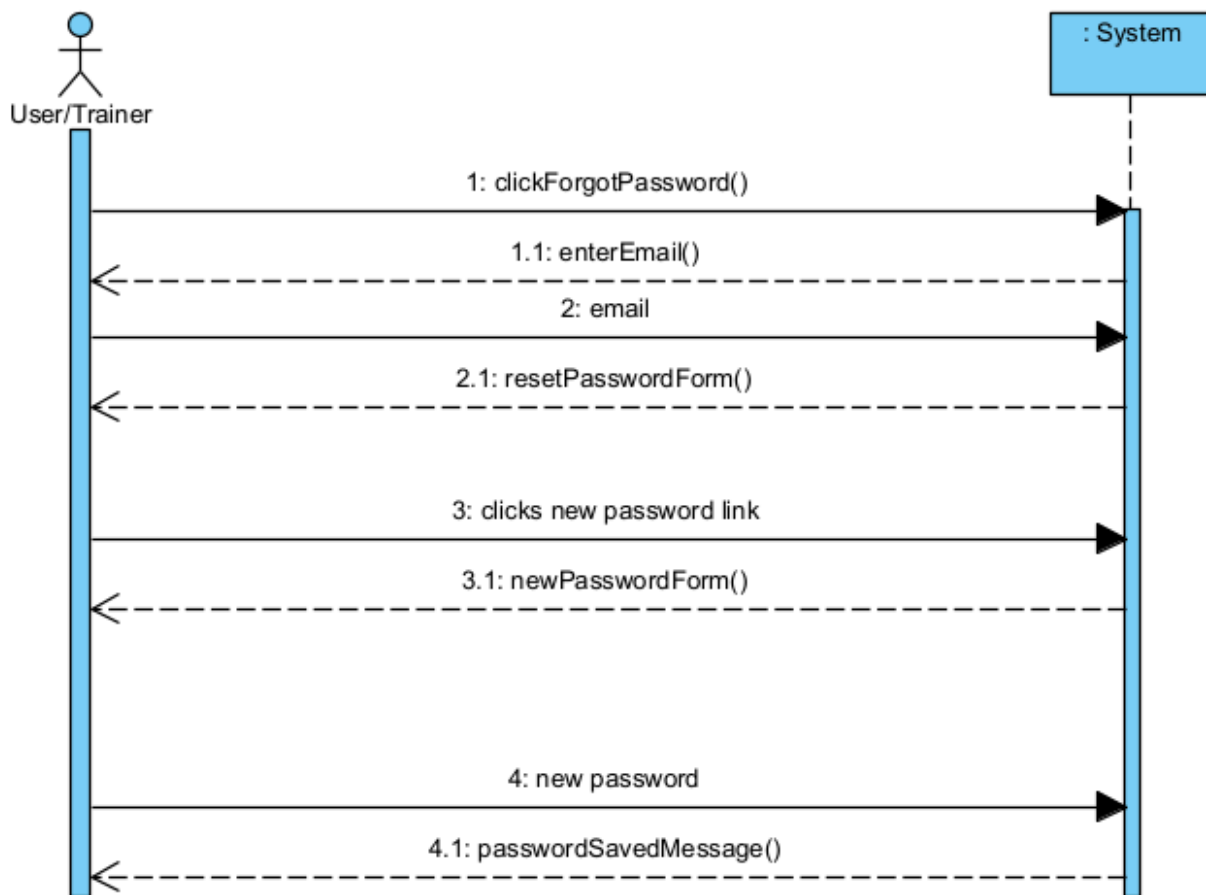
Alternate paths:

a.* anytime the process does not work

1. User/trainer emails user support
2. Admin reads user/trainer's email and manually resets password

5.a "new password" and "confirm new password" boxes do not match

1. User retypes in both boxes



Contract CO2: Change User/Trainer password

Pre-Condition: User/Trainer has an account and has forgotten their password

Post-Conditions:

- uPass was changed (attribute modification)

2. Fully-dressed

ID UC Logging Calories and Nutritional Macros

Scope Nutrition tracking system

Level user goal

Stakeholders and interests

User

- Person that is interested in logging their calories and macros

Trainer

- Person that is interested in checking the diet of their clients

System admin

- Person responsible for nutrition tracking system run

Precondition: User has eaten a meal

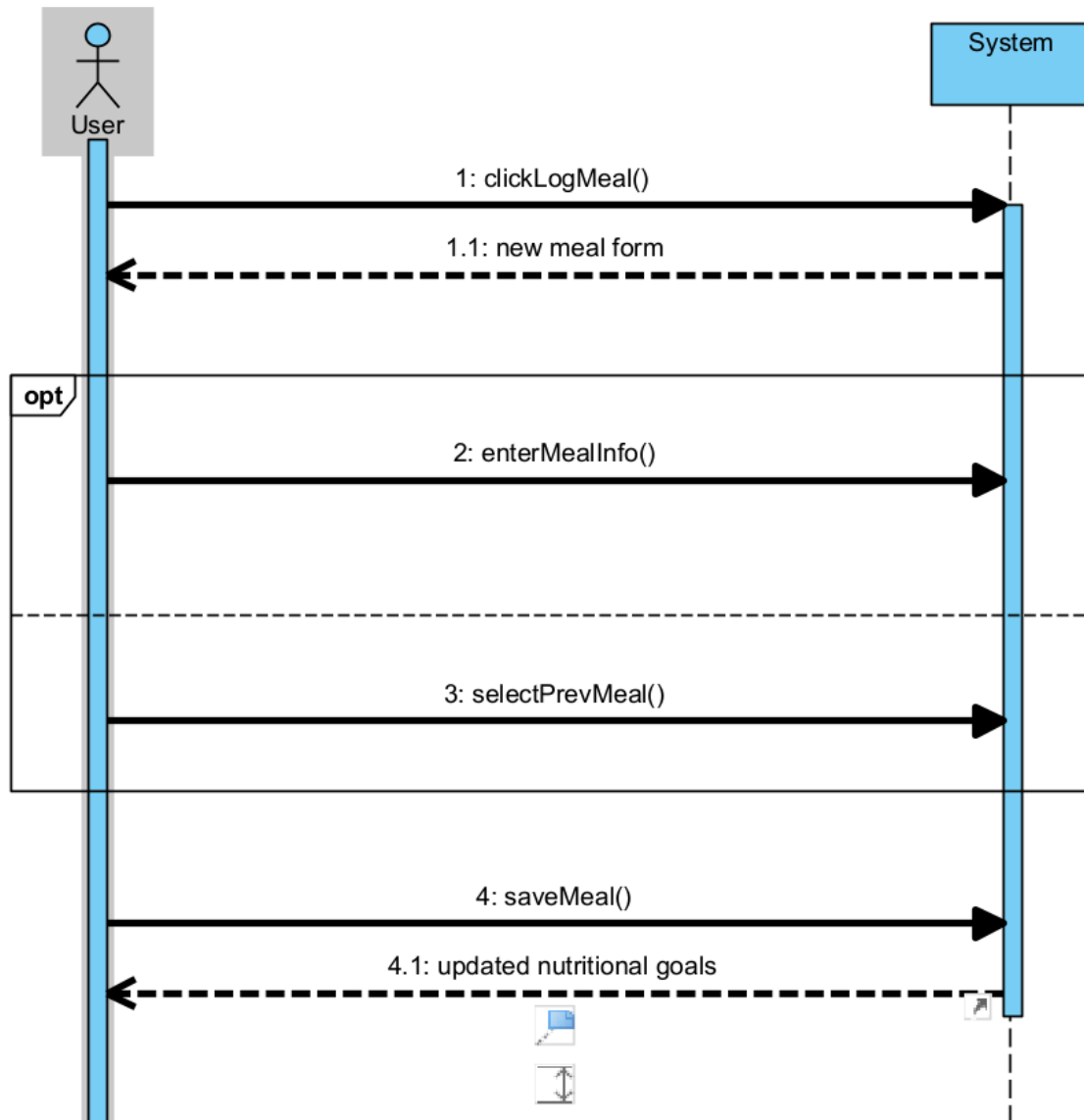
Postcondition: Meal is saved and nutritional info updated

Main success scenario:

1. User eats a meal
2. User logs in to the app
3. User clicks “log meal”
4. User enters the name of the meal
5. User enters the number of calories and amount of fat, carbs, and protein in grams of the meal
6. User clicks “confirm meal”
7. System saves all the info of the meal
8. System adds meal to the user’s previous meals list
9. System adds the amount of calories and macros towards their daily goals of each
10. Trainer can view the user’s meal

Alternate paths:

- a.* anytime the app does not respond
 1. User/trainer restarts the app
- 2.a If user cannot login to the app
 1. User resets their password
- 4.a If user ate a meal that was previously logged
 1. User finds the meal in their previous meals list
 2. User selects the meal
 3. System saves all the info of the meal
- 5.a if user does not enter calories, fat, carbs, or protein,
 1. The system updates according to the fields entered



Contract CO2: enterMeal

Operation: enterMeal(calories: integer, fat: integer, protein: integer, carbs: integer)

Pre-conditions: User has eaten a meal

Post-conditions:

- A Meal instance uMeal was created (instance creation)
- uMeal was associated with the User. (association formed)
- uMeal.calories was set to calories. (attribute modification)
- uMeal.fat was set to fat. (attribute modification)
- uMeal.protein was set to protein. (attribute modification)

- uMeal.carbs was set to carbs. (attribute modification)

3. Fully-dressed

ID UC User Logs Injury

Scope User Injury System

Stakeholders and interests

User

- Person interested in recording their injury
- Person interested in having their workouts tailored to their injury

Trainer

- Person interested in planning workouts according to their client's ability

System admin

- Person responsible for user injury system run

Precondition: User is injured

Postcondition: Injury is recorded

Main success scenario:

1. User is injured
2. User logs into app
3. User clicks "Record Injury"
4. User enters injury location, type, pain level, activities to avoid, and the origin.
5. System saves the user's injury
6. Trainer can view the user's injury(s)

Alternate paths:

a.* anytime the app does not respond

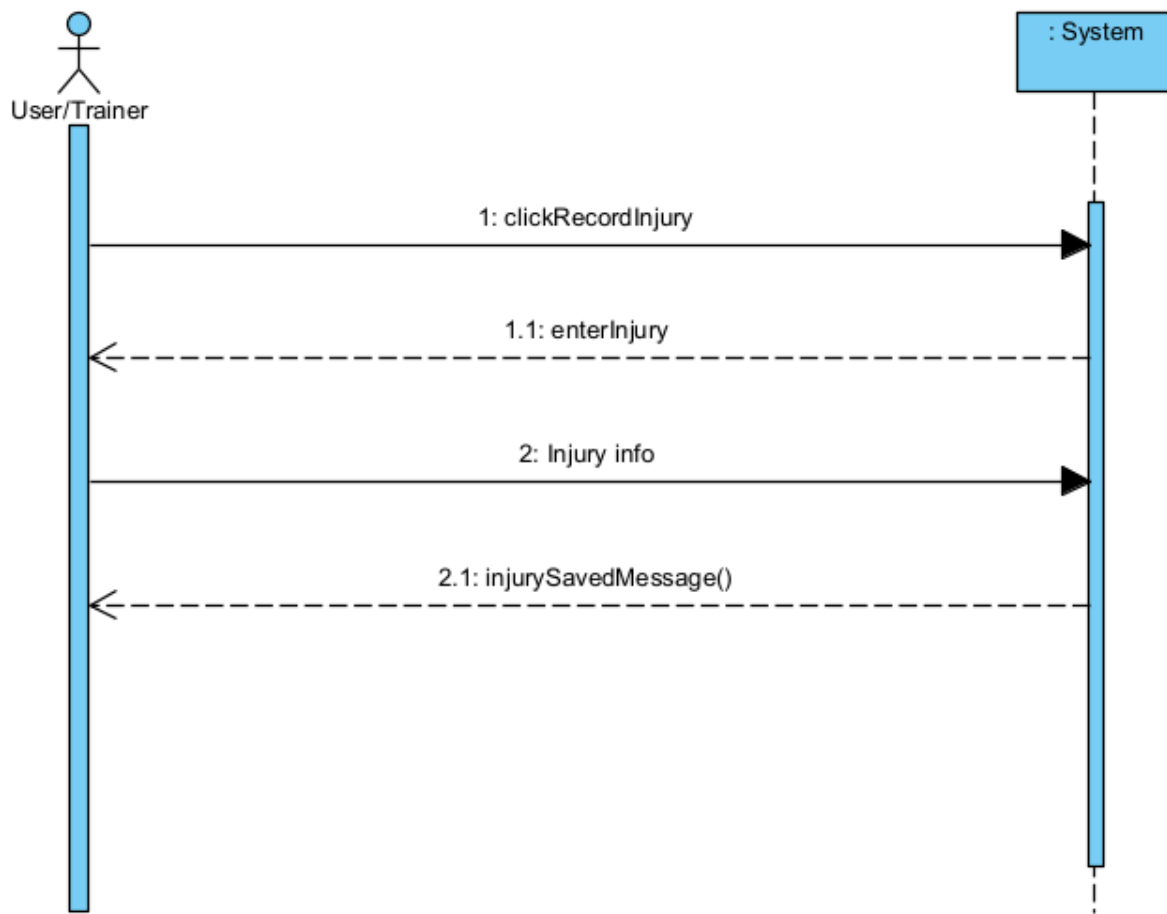
1. User restarts application

1.a User forgot their password

1. User resets password

4.a User does not enter all of the injury info

1. System saves only the entered info



Contract CO2: User Logs Injury

Operation: enterInjury(injury : string, location : string, cause : string, painLevel : integer)

Pre-conditions: user is injured

Post-conditions:

- An injury instance ulnjury was created (instance creation)
- ulnjury was associated with user (association formed)
- ulnjury.location was set to location (attribute modification)
- ulnjury.injury was set to injury (attribute modification)
- ulnjury.painLevel was set to painLevel (attribute modification)

- **Savannah Johnson:**

1. Fully Dressed: Logging weight

ID UC Tracking weight

Scope Health & Fitness System

Level User goal

Stakeholders and Interests

General User (User) - A user wants to track and log their weight over time

Trainer - Creates and manages weight logs and fitness plans, monitors progress

Admin - Ensures content follows app rules, policies, and maintains privacy

System Manager/Maintainer - Ensures the application runs smoothly, stores and updates data efficiently.

Precondition: User profile is created and the user is logged in

Postcondition: Weight progress is logged and saved. The user's weight history log is updated with the newly created weight entry data. The user's weight goals are updated accordingly.

Main Success Scenario:

1. User wants to log their current weight
2. User clicks "Record Weight"
3. System prompts the user to input their weight and specified unit of measurement
4. User enters date for the weight input
5. User enters weight
6. User clicks "Save Weight"
7. System validates fields, ensuring correct units and valid weight and date ranges
8. System stores the new weight entry in the user's history
9. User views their updated progress and weight history

Alternate Paths:

a.* System does not respond

1. An error message is displayed to the user asking them to restart the entry process

3a. A new form can't be created or loaded

1. System shows an error message and asks the user to refresh the page or try again later.

7a. The user entered an invalid unit measurement

1. System shows an error message and asks user to change the unit

7b. The user entered an invalid range for weight

1. System shows an error message and asks user to enter a value greater than 0

7c. The user entered an invalid date

1. System shows an error message and asks user to enter a correct date where months are between 0 and 12, days are between 1 and 31, and year is 4 digits.

7d. The user left a required field blank

1. System shows an error message and asks user to enter a value in the fields

8a. System is unable to save entry

1. System shows an error message and asks user to try again

9a. System is unable to update the user's weight

1. System sends error report to system manager

2. System warns the user that their progress may not have saved
2. System shows error message to user, informs them that goal progress might not be accurate until a system manager can correct the issue

Operation Contracts:

recordNewWeight()

Operation: recordNewWeight()

Cross References: None

Precondition: User profile has been created. The user is logged in.

Postcondition: A new weight entry form is created and displayed for the user to fill out

saveWeight()

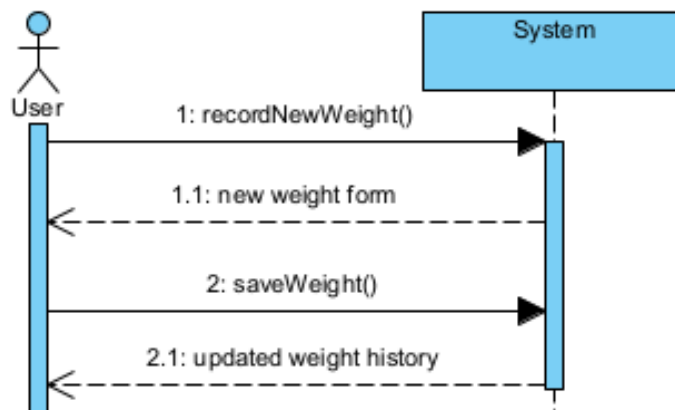
Operation: saveSleep(Date: date, Weight: double, Unit: string)

Cross References: None

Precondition: User has filled out the form with correct values for unit, date, and weight.

Postcondition:

- A weightRecord is created for the user
- User's weight goals have their progress updated
- The weight entry is stored in user's weight history



2. Fully Dressed: Set weight goal

ID UC Setting Weight Goal

Scope Health & Fitness System

Level User Goal

Stakeholders and Interests

General User (User) - Wants to track and set weight goals over time

Trainer - Creates and manages exercise plans

Admin - Ensures content follows app rules and policies

System Manager/Maintainer - Person responsible for ensuring the application runs smoothly

Precondition: User profile has successfully been created.

Postcondition: New weight goal is saved in the system. This goal's progress is updated. The user can view their weight goal and monitor progress of the weight goal.

Main Success Scenario:

1. User wants to create or view a weight goal
2. User clicks "Weight Goals"
3. System displays the user's current weight goal(s)
4. User clicks "Create Weight Goal"
5. System displays weight goal form
6. User inputs a weight and unit of measurement for the goal
7. User enters a target date for the goal (optional)
8. User clicks "Save New Goal"
9. System validates weight range, valid date, and valid unit of measurement
10. If fields are correct, the system stores the weight goal and updates the user's weight goal history.
11. The user can view weight goal history and progress toward the current weight goal.

Alternate Paths:

- 2a. User's sleep goals page can't be loaded or displayed properly
 1. An error message is displayed to the user notifying them that there has been an error and to refresh the page or to try again later.
 2. System sends error message to the system manager
- 6a. The user entered an invalid unit
 1. System displays an error message and asks user to enter a valid unit
- 6b. The user entered an invalid weight range
 1. System shows an error message and asks user to enter a positive weight goal
- 6c. The user entered an invalid date
 1. System shows an error message and asks user to enter a correct date that is in the future, where the values are within correct range: months are between 0 and 12, days are between 1 and 31, and year is 4 digits
- 10a. The system is unable to store the weight goal
 1. System sends error report to system manager
 2. System warns the user that their progress may not have saved

Operation Contracts:clickWeightGoals:

Operation: clickWeightGoals()

Cross References: None

Precondition: User account is created and the user is logged in.

Postcondition: The user is able to view the weight goals page

createWeightGoal:

Operation: createWeightGoal()

Cross References: None

Precondition: User is currently viewing the weight goals page

Postcondition: The user is able to view the weight goal form.

saveWeightGoal:

Operation: saveWeightGoal(TargetWeight: double, Unit: string, TargetDate: date)

Cross References: None

Precondition: User has entered correct values for target weight, unit of measurement, and target date (optional).

Postcondition: A new weight goal is created for the user and updated. The user can view the weight goal and history.

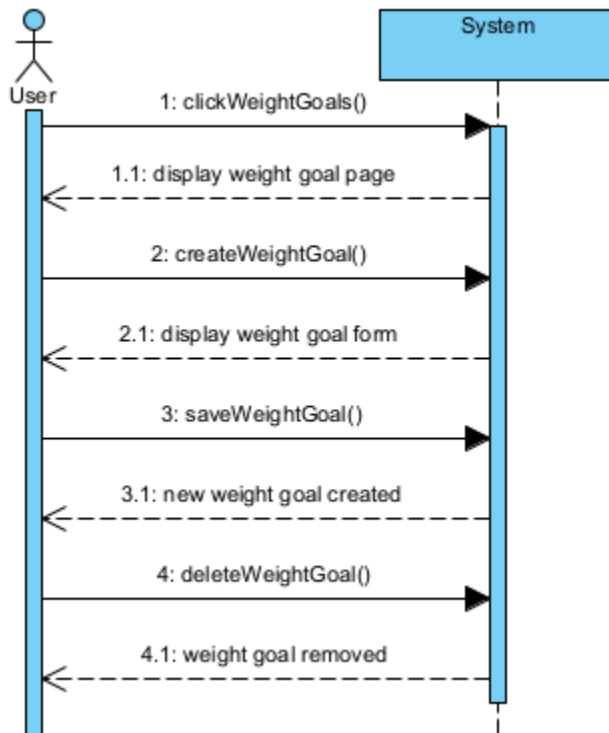
deleteWeightGoal:

Operation: deleteWeightGoal(ID: int)

Cross References: None

Precondition: The specified goal already exists

Postcondition: The specified weight goal is removed from the user's history, and the user's weight goals are updated.



3. Fully Dressed: Tracking hydration

ID UC Logging water intake

Scope Health & Fitness System

Level User goal

Stakeholders and Interests

General User (User) - A user wants to track and log their water intake over time

Trainer - Creates and manages hydration logs, monitors progress

Admin - Ensures content follows app rules, policies, and maintains privacy

System Manager/Maintainer - Ensures the application runs smoothly, stores and updates data efficiently.

Precondition: User profile is created and the user is logged in

Postcondition: Hydration progress is logged and saved. The user's hydration log is updated with the newly created entry data. The user's hydration goals are updated accordingly.

Main Success Scenario:

1. User wants to log water intake
2. User clicks "Record Water"
3. System prompts the user to input the amount of water and units (oz, ml, etc.)
4. User enters date for the water input
5. User clicks "Save"
6. System validates fields, ensuring valid units, quantity, and date range
7. System stores and updates the new water intake entry in the user's hydration log
9. User views their updated hydration progress and history

Alternate Paths:

a.* System does not respond

1. An error message is displayed to the user asking them to restart the entry process

3a. A new form can't be created or loaded

1. System shows an error message and asks the user to refresh the page or try again later.

6a. The user entered an invalid unit of measurement

1. System shows an error message and asks user to change the unit

6b. The user entered an invalid range for water intake

1. System shows an error message and asks user to enter a value greater than 0

6c. The user entered an invalid date

1. System shows an error message and asks user to enter a correct date where months are between 0 and 12, days are between 1 and 31, and year is 4 digits.

6d. The user left a required field blank

1. System shows an error message and asks user to enter a value in the fields

7a. System is unable to save entry

1. System shows an error message and asks user to try again

7a. System is unable to update the user's hydration

1. System sends error report to system manager
2. System warns the user that their progress may not have saved

2. System shows error message to user, informs them that goal progress might not be accurate until a system manager can correct the issue

Operation Contracts:

recordWaterIntake()

Operation: recordWaterIntake()

Cross References: None

Precondition: User profile has been created. The user is logged in.

Postcondition: A new water intake entry form is created and displayed for the user to fill out

saveWaterIntake()

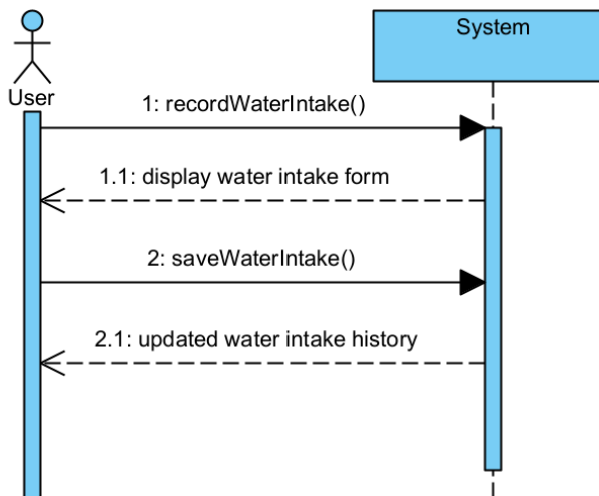
Operation: saveWaterIntake(Date: date, Weight: double, Unit: string)

Cross References: None

Precondition: User has filled out the form with correct values for unit, date, and water intake.

Postcondition:

- A waterRecord is created for the user
- User's hydration goals have their progress updated
- The water intake entry is stored in user's water intake history



Mason Baxter:**1. Fully Dressed: Tracking Sleep****ID UC Tracking Sleep****Scope Health & Fitness System****Level User Goal****Stakeholders and Interests**

General User (User) - Person who is interested in tracking their sleep

Trainer - Person who creates and manages exercise plans/classes

Admin - Person who is responsible for ensuring content follows app rules and policies.

System Manager/Maintainer - Person responsible for ensuring the application runs smoothly

Precondition: User profile has been created.

Postcondition: Sleep goal progress has been updated and saved. Entry data for sleep is created and saved in the user's sleep history.

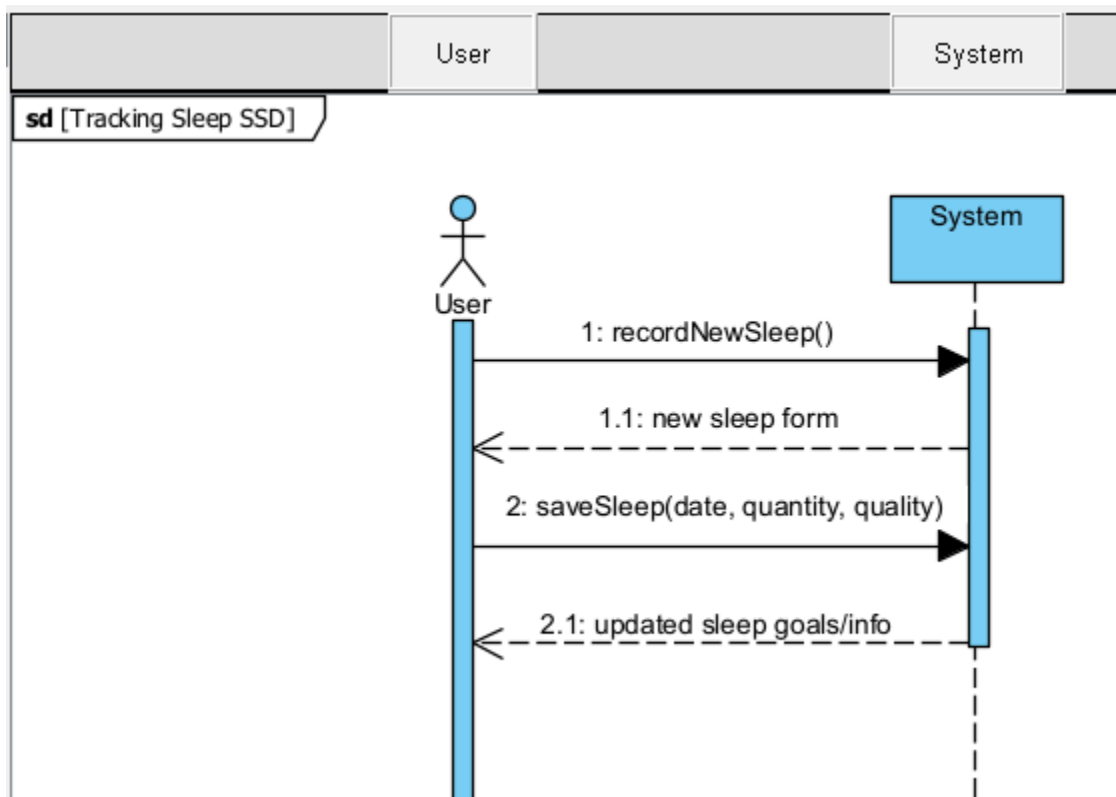
Main Success Scenario:

1. User wants to log an amount of sleep they had.
2. User clicks "Record Sleep"
3. System prompts user to input the amount of sleep and a rating of the quality of sleep on a scale from one to ten
4. User enters the date(s) when the sleep occurred
5. User enters the amount of sleep
6. (optional) User enters the quality of the sleep from one to ten
7. User clicks "Save Sleep"
8. System validates all fields
9. System creates a new sleep entry in the user's history
10. System updates any of the user's sleep goals with this new information

Alternate Paths:

- a. * Anytime system does not respond
 1. An error message is displayed to the user asking them to restart the entry process
- 3a. A new form can't be created or loaded
 1. System shows an error message, asks the user to refresh the page or try again later.
- 8a. The user entered a value that can't be validated
 1. System shows an error message, asks the user to change the entry amount or try again
- 8b. The user entered a value that is out of the given range for quality of sleep
 1. System shows an error message, asks the user to re-enter a value between one and ten
- 8c. The user left a required field blank
 1. System shows an error message, asks the user to enter a value in the required fields
- 9a. System is unable to save or create a new entry
 1. System shows an error message, asks user to try again
- 10a. System is unable to update the user's sleep goals
 1. System sends error message to system manager
 2. System shows error message to user, informs them that goal progress might not be accurate until a system manager can correct the issue

Screenshot of SSD:



Operation Contracts:

recordNewSleep()

Operation: recordNewSleep()

Cross References: None

Precondition: User profile has been created. The user is on their dashboard.

Postcondition: A new sleep form is created and displayed for the user to fill out

saveSleep()

Operation: saveSleep(Date: date, Quantity: integer, Quality: integer)

Cross References: None

Precondition: User has filled out the form with correct values for date, and quantity.

Postcondition:

- A sleepRecord has been created for the user
- User's sleep goals have their progress updated if this sleepRecord's date, quality, or quantity is within the range

2. Fully Dressed: Setting Sleep Goals

ID UC Setting Sleep Goals

Scope Health & Fitness System

Level User Goal

Stakeholders and Interests

General User (User) - Person who is interested in tracking and setting goals for their sleep.

Trainer - Person who creates and manages exercise plans/classes

Admin - Person who is responsible for ensuring content follows app rules and policies

System Manager/Maintainer - Person responsible for ensuring the application runs smoothly

Precondition: User profile has successfully been created.

Postcondition: New sleep goal is saved in the system. This goal's progress is updated based upon the user's previous sleep entries that fit within the goal's ranges.

Main Success Scenario:

1. User wants to create a new sleep goal
2. User clicks "Sleep Goals"
3. System displays the user's created sleep goals
4. User clicks "Create New Sleep Goal"
5. System shows sleep goal form
6. User inputs a name for the goal
7. User selects if the goal is a daily, weekly, or monthly goal.
8. (optional) User selects a start date for the goal.
9. User inputs the amount of sleep they want to reach in the given timeframe
10. (optional) User inputs the minimum quality of sleep that will count towards this goal
11. User clicks "Confirm New Goal"
12. System validates all the fields
13. System creates a new sleep goal for the user with the given information and constraints
14. System updates the newly created sleep goal with the user's previous sleep records

Alternate Paths:

a.* Anytime system does not respond

1. An error message is displayed to the user asking them to restart the goal creation process

3a. User's sleep goals page can't be loaded or displayed properly

1. An error message is displayed to the user notifying them that there has been an error and to refresh the page or to try again later.

2. System sends error message to the system manager

5a. A new form can't be created or loaded

1. System shows an error message, asks the user to refresh the page or try again later

8a. The user did not set a start date for the goal

1. System sets the start date for the goal to the default start date (the date the user created the goal).

10a. The user does not set a minimum quality of sleep that will count

1. System sets the minimum quality of sleep for the goal to the default value of one.

12a. The user did not complete all required fields

1. System shows an error message, asks the user to enter a value in the required fields

12b. The user entered a value that can't be validated

1. System shows an error message, asks the user to either change the entry or try again

12c. The user entered a minimum quality of sleep value outside the given range for quality of sleep

1. System shows an error message, asks the user to re-enter a value between one and ten

12d. Policy Keywords Found in Name

1. System shows an error message, asks user to input a different name

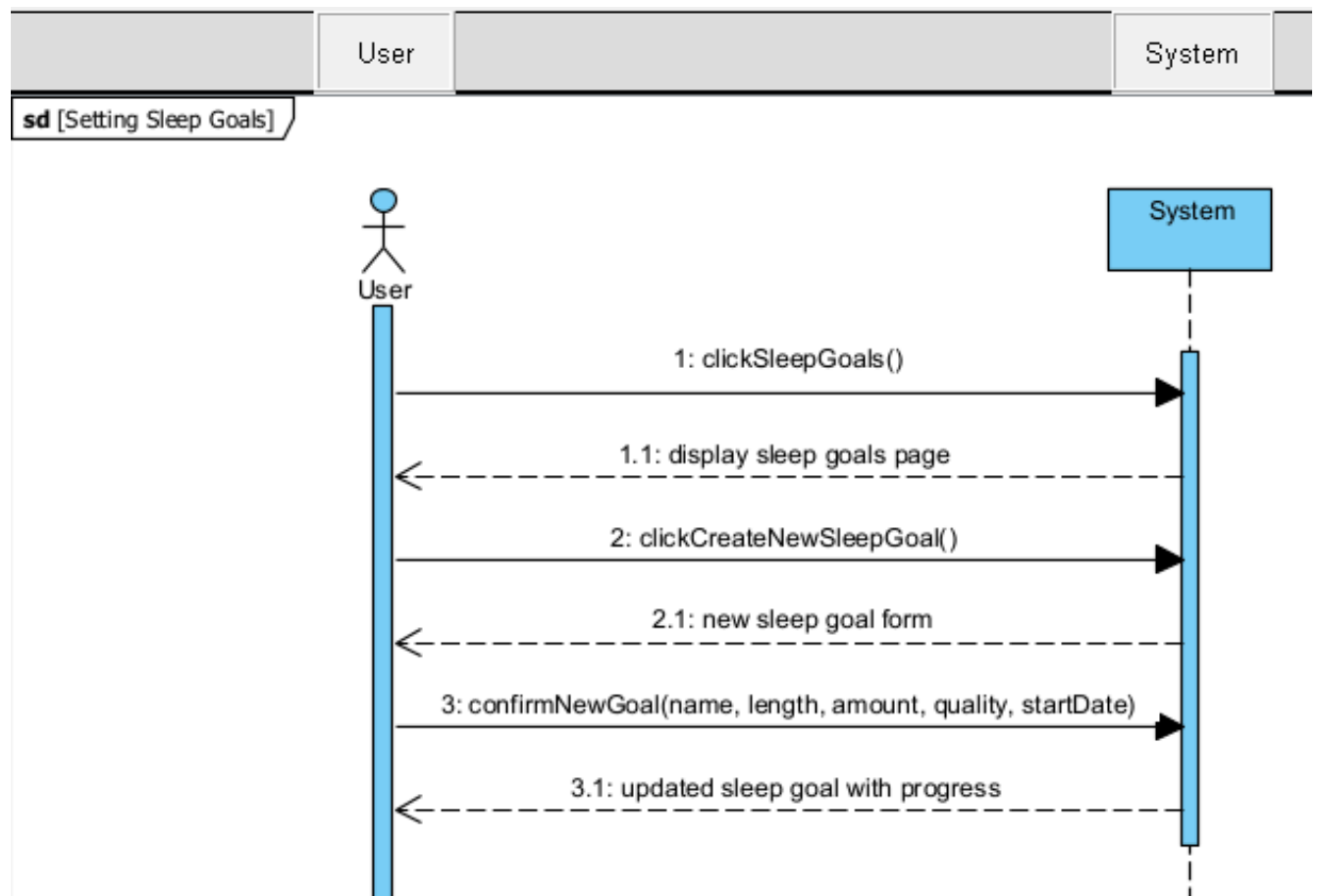
13a. System is unable to save or create a new entry

1. System shows an error message, asks user to try again

14a. System is unable to update the user's sleep goal

1. System sends error message to system manager
2. System shows an error message to the user, informing them that goal progress might not be accurate until a system manager can correct the issue.

Screenshot of SSD:



Operation Contracts:

clickSleepGoals:

Operation: clickSleepGoals()

Cross References: None

Precondition: User profile has already been created. The user is on their dashboard.

Postcondition: None

clickCreateNewSleepGoal:

Operation: clickCreateNewSleepGoal()

Cross References: None

Precondition: User is on the sleep goals page

Postcondition: A new sleep goal form is created for the user to fill out

confirmNewGoal:

Operation: confirmNewGoal(name: string, length: integer, amount: integer, quality: integer, startDate: date)

Cross References: None

Precondition: User has filled out a sleep goals form with correct values for name, length, and amount

Postcondition: A sleepGoal has been created for the user and updated according to the user's sleepRecords

3. Fully Dressed: Viewing Sleep History

ID UC Viewing Sleep History and Goals Over the Past Month

Scope Health & Fitness System

Level User Goal

Stakeholders and Interests

General User (User) - Person who is interested in tracking and setting goals for their sleep

Trainer - Person who creates and manages exercise plans/classes

Admin - Person who is responsible for ensuring content follows app rules and policies

System Manager/Maintainer - Person responsible for ensuring the application runs smoothly

Precondition: User profile has successfully been created.

Postcondition: None

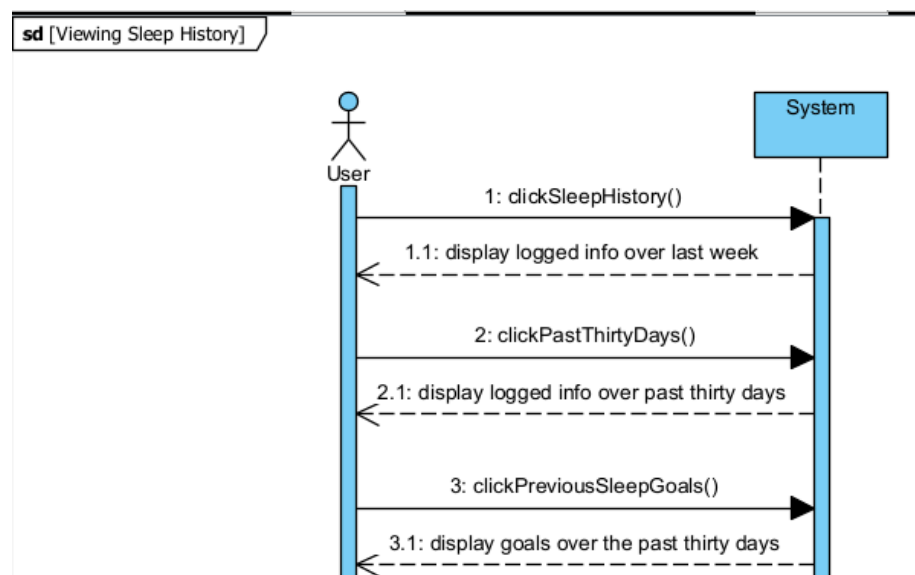
Main Success Scenario:

1. User wants to view their logged sleep history
2. User clicks "Sleep History"
3. System displays the user's previously logged sleep information over the past week
4. User clicks "Past 30 Days"
5. System displays the user's previously logged sleep information over the past 30 days
6. User clicks "Previous Sleep Goals"
7. System displays the user's sleep goals that had occurred during the past 30 days

Alternate Paths:

- a. * Anytime system does not respond
 1. An error message is displayed to the user asking them to refresh the page.
- 3a. The user's sleep history can't be loaded or displayed properly for the past week.
 1. An error message is displayed to the user notifying them that there has been an error and to refresh the page or to try again later.
- 5a. The user's sleep history can't be loaded or displayed properly for the previous thirty days
 1. An error message is displayed to the user notifying them that there has been an error and to refresh the page or to try again later.
- 7a. The user's sleep goals for the past thirty days can't be loaded or displayed
 1. An error message is displayed to the user notifying them that there has been an error and to refresh the page or to try again later.

Screenshot of SSD:



Operation Contracts:

clickSleepHistory:

Operation: clickSleepHistory()

Cross References: None

Precondition: User profile has been created. The user is on their dashboard.

Postcondition: None

clickPastThirtyDays:

Operation: clickPastThirtyDays()

Cross References: None

Precondition: User is on their sleep history page.

Postcondition: viewSleepTimeline is set to thirty days.

clickPreviousSleepGoals:

Operation: clickPreviousSleepGoals()

Cross References: None

Precondition: User is on their sleep history page.

Post Condition: None

Ethan Rogers:**1. Fully Dressed: Sending a Friend Request****ID UC Send Friend Request****Scope** Social**Level** Friends**Stakeholders and Interests**

General User (user): someone who wants to connect with other people virtually

System Maintainer: person responsible for making sure that the social menus work

Precondition: User profile has already been created

Postcondition: none

Main Success Scenario:

1. User wants to send friend request
2. User clicks on "Social" menu
3. User navigates to "Friends" section
4. User clicks on "Add Friend" button
5. User submits the username of the person they want to friend
6. System notifies the other user of the friend request

Alternate Paths:

a. System does not respond

1. An error message is displayed to the user asking them to refresh the app

3a. The user's friends list could not be loaded

1. An error message is displayed that there was an error loading their friends and to reload the app to try again

5a. The submitted username is invalid

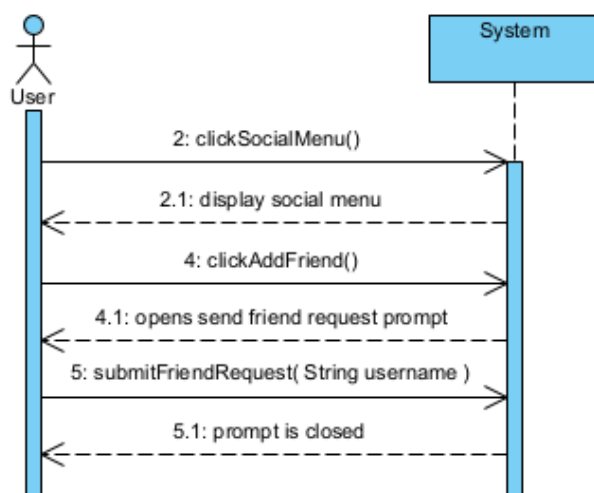
1. An error message is displayed saying that the specified user doesn't exist and to try another name

6a. The system does not receive the request

1. An error message is displayed telling the user to try again

6b. The system does not notify the other user

1. The other user will not be aware of the friend request until they open the app

SSD:

Operation Contracts:clickSocialMenu:

Operation: clickSocialMenu()

CrossReferences: None

Precondition: The profile has been created and the user is on the dashboard

Postcondition: none

clickAddFriend:

Operation: clickAddFriend()

CrossReferences: none

Precondition: user is already in the social menu

Postcondition: none

submitFriendRequest:

Operation: submitFriendRequest(String username)

CrossReferences: none

Precondition: user has clicked add a friend button

Postcondition: the system will notify the other user of the friend request

2. Fully Dressed: Accepting a Friend Request

ID UC Accept Friend Request

Scope Social

Level Friends

Stakeholders and Interests

General User (user): someone who wants to connect with other people virtually

System Maintainer: person responsible for making sure that the social menus work

Precondition: User profile has already been created. User has received a friend request.

Postcondition: none

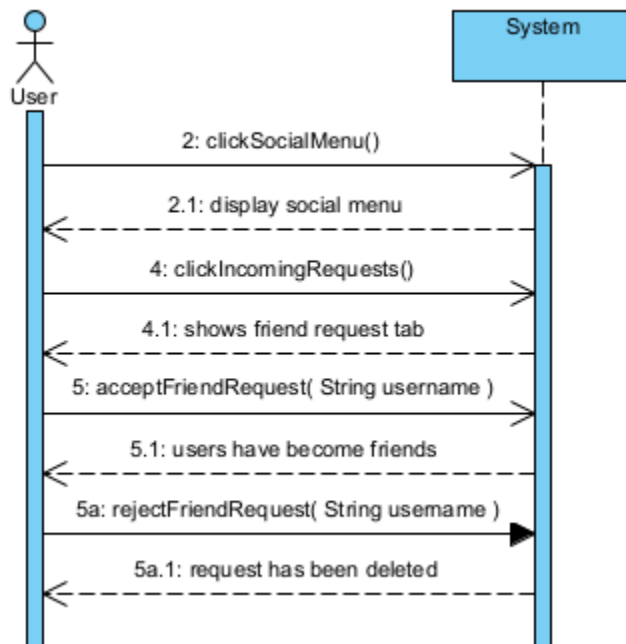
Main Success Scenario:

1. User wants to accept friend request
2. User clicks on "Social" menu
3. User navigates to "Friends" section
4. User clicks the "Incoming Friend Request" button
5. User accepts the request of the person they want to be friends with
6. System records the friendship between the two users. System notifies the other user that the friend request has been accepted.

Alternate Paths:

- a. System does not respond
 1. An error message is displayed to the user asking them to refresh the app
- 3a. The user's friends list could not be loaded
 1. An error message is displayed that there was an error loading their friends and to reload the app to try again
- 4a. The user's incoming friend request failed to load
 1. An error message is displayed saying that their friend requests could not be displayed and to try restarting the app.
- 5a. The user rejects the friend request
 1. The system deletes the request
- 6a. The system does not receive the accept request
 1. An error message is displayed telling the user to try again
- 6b. The system does not notify the other user
 1. The other user will not be aware of the accepted friend request until they open the app

SSD:



Operation Contracts:

clickSocialMenu:

Operation: clickSocialMenu()

CrossReferences: None

Precondition: The profile has been created and the user is on the dashboard

Postcondition: none

clickIncomingRequests:

Operation: clickIncomingRequests()

CrossReferences: none

Precondition: user is already in the social menu, the user must have at least 1 incoming friend request

Postcondition: the app must load all of the incoming friend requests

acceptFriendRequest:

Operation: submitFriendRequest(String username)

CrossReferences: none

Precondition: user has clicked show incoming friend requests button

Postcondition: the system will record the friendship between the two users

rejectFriendRequest:

Operation: rejectFriendRequest(String username)

CrossReferences: none

Precondition: user has clicked show incoming friend requests button

Postcondition: none

3. Fully Dressed: Adding Users to Group

ID UC Add Group Users

Scope Social

Level Groups

Stakeholders and Interests

General User (user): someone who wants to connect with other people virtually

System Maintainer: person responsible for making sure that the social menus work

Precondition: User profile has already been created. User has received a friend request.

Postcondition: none

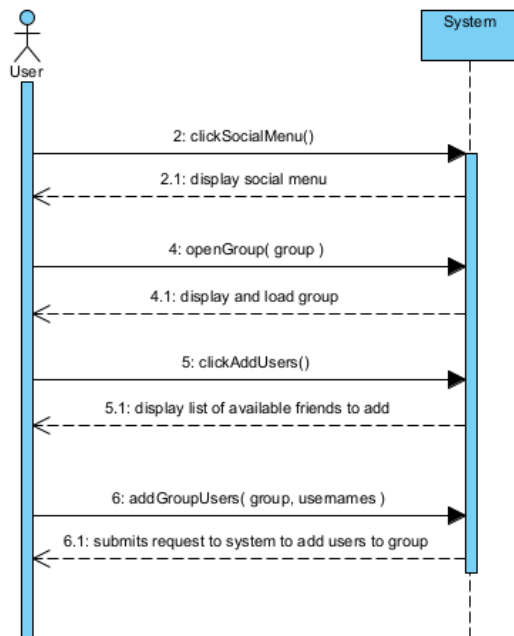
Main Success Scenario:

1. User wants to accept friend request
2. User clicks on "Social" menu
3. User navigates to "Groups" section
4. User clicks on the Group they want to add users to
5. User clicks on "Add members"
6. User selects users from their friends list to add to the group and clicks submit
7. System adds those users to the group in the data base

Alternate Paths:

- a. System does not respond
 1. An error message is displayed to the user asking them to refresh the app
- 3a. The user's groups list could not be loaded
 1. An error message is displayed that there was an error loading their groups and to reload the app to try again
- 5a. The user rejects the friend request
 1. The system deletes the request
- 7a. The system does not receive the request
 1. An error message is displayed telling the user to try again

SSD:



Operation Contracts:

clickSocialMenu:

Operation: clickSocialMenu()

CrossReferences: None

Precondition: The profile has been created and the user is on the dashboard

Postcondition: none

openGroup:

Operation: openGroup(Group group)

CrossReferences: none

Precondition: user is already in the social menu

Postcondition: none

clickAddUsers:

Operation: clickAddUsers()

CrossReferences: None

Precondition: the user is in the group menu

Postcondition: none

addGroupUsers:

Operation: addGroupUsers(Group group, String[] usernames)

CrossReferences: none

Precondition: user is already in the group menu and has input as many of their friends that are not in group as they want

Postcondition: it will be recorded that each of the users in usernames will be added to the group

Dannis Wu:

1. Full-dressed: Create a Self-Paced Exercise Plan

ID UC Create a Self-paced Plan

Scope Health & Fitness system

Level user goal

Stakeholders and interests

Customer (General user) — person that uses plans to exercise safely.

Trainer — person who creates and manages exercise plans/classes.

Admin — person checking content follows policy.

System maintainer — person responsible for application run.

Precondition: Trainer is authenticated.

Postcondition: Plan is saved (draft or published).

Main success scenario:

1. trainer wants to create a self-paced plan.
2. trainer opens **Create plan** page.
3. system shows plan form.
4. trainer fills basic info: title and description.
5. trainer selects required equipment.
6. trainer selects recommended fitness level.
7. trainer enters average session length.
8. trainer enters suggested frequency (e.g., 3 times per week).
9. (optional) trainer adds media/tags/safety notes.
10. trainer chooses **Publish**.
11. system validates all fields.
12. system saves plan and confirms success.

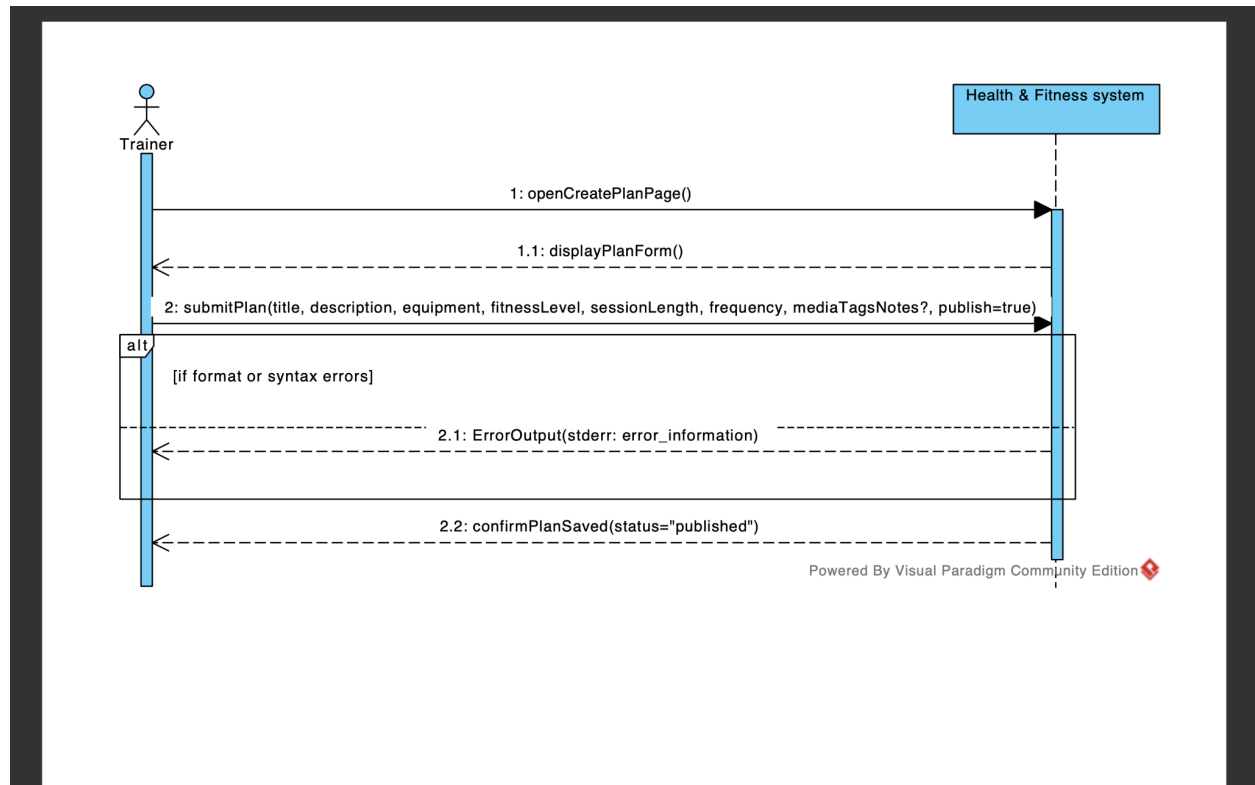
Alternate paths:

- a.* anytime system does not respond — system autosaves draft; trainer will try again.
- 3.a form cannot load — system shows error; trainer will refresh or come back later.
- 11.a some required field is empty or invalid — system highlights fields; trainer fixes and goes to step 10.
- 10.a trainer chooses **Save as draft** — system saves draft; plan is not visible to users.

11.b duplicate title detected — system suggests rename; trainer picks a new title and goes to step 10.

11.c policy keywords found — system marks **Pending review**; trainer is notified.

12.a network failure on save — system keeps local draft and shows warning.



Contract CO1: createSelfPacedPlan

Operation:

createSelfPacedPlan

Pre-condition:

Trainer is logged in and has opened the create plan page.

Post-conditions:

- A new Plan was created.
- The Plan was linked to the Trainer.
- The Plan title was set.
- The Plan description was set.
- The Plan equipment was set.

- The Plan fitness level was set.
- The Plan session length was set.
- The Plan frequency was set.
- The Plan notes or media were set if provided.
- The Plan status was set to Published if valid, or Draft if saved as draft.
- If there are errors, the system shows a message and does not save.

2. Fully-dressed: Create and Register a Scheduled Class

ID UC Create and Register a Scheduled Class

Scope Health & Fitness system

Level user goal

Stakeholders and interests

Customer (General user) — person that wants clear time, level, prerequisites, and seats.

Trainer — person who schedules, hosts, and manages the class.

Admin — person ensuring limits and policies are respected.

System maintainer — person responsible for application run.

Precondition: Trainer is authenticated.

Postcondition: Class is saved (draft or published) with schedule and capacity.

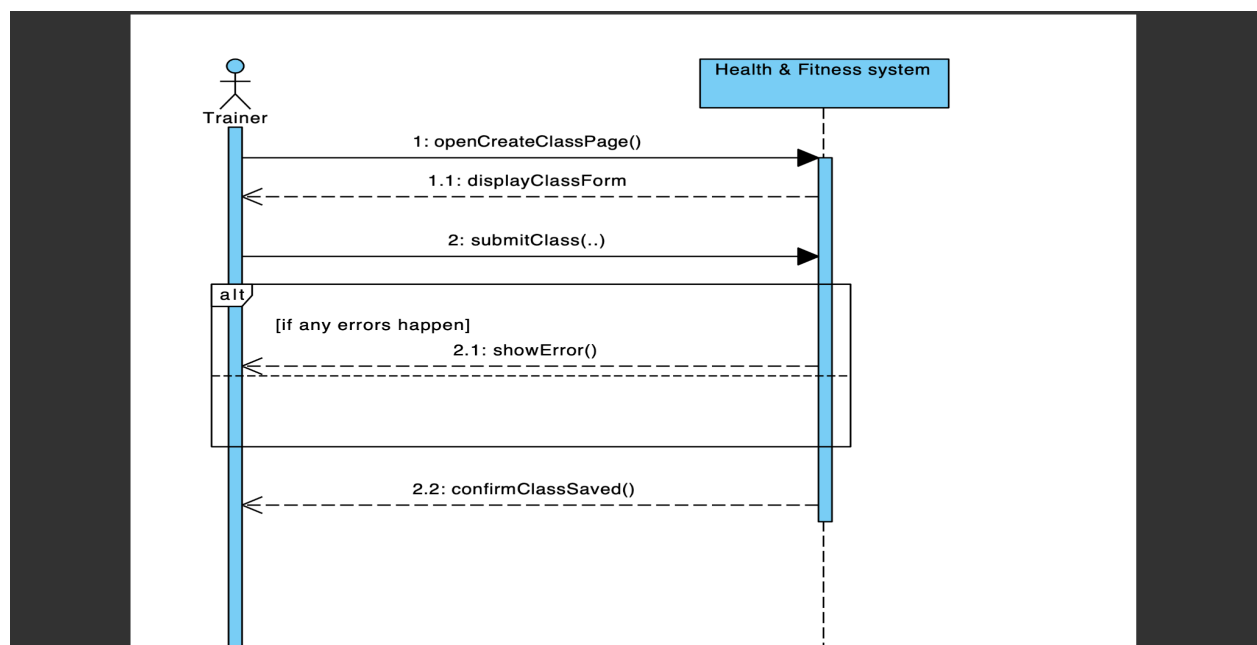
Main success scenario:

1. trainer wants to create a scheduled class.
2. trainer opens **Create class** page.
3. system shows class form.
4. (optional) trainer links an existing plan as curriculum.
5. trainer fills title and description.
6. trainer sets date/time, days of week, session length, and number of weeks.
7. trainer selects delivery mode (in-person location or online link).
8. trainer sets enrollment limit (max participants).
9. trainer sets recommended fitness level and prerequisites (recommended or required).

10. trainer lists required equipment.
11. trainer chooses **Publish**.
12. system validates fields and checks for schedule conflict with trainer's other classes.
13. system saves class (and recurrence), opens registration, and confirms success.

Alternate paths:

- a.* anytime system does not respond — system autosaves draft; trainer will try again.
- 7.a online link cannot be generated — system asks trainer to paste a link; continue to step 11.
- 8.a enrollment limit missing — system applies default; trainer may edit before step 11.
- 9.a prerequisites marked "required" but empty — system blocks publish; trainer fills and goes to step 11.
- 12.a conflict with another class — system shows conflict list; trainer edits schedule and returns to step 11.
- 11.a trainer chooses **Save as draft** — class saved as draft; not visible for registration.
- 12.b policy issue detected — class set to **Pending review**; trainer notified.
- 13.a storage/network error — keep local draft and show warning.



Contract CO2: submitClass

Operation:

submitClass

Pre-condition:

Trainer is logged in and has opened the Create Class page.

Post-conditions:

- A new Class was created.
- The Class was linked to the Trainer.
- The Class title and description were set.
- The schedule (date, time, days, weeks) was set.
- The delivery mode (in-person or online) was set.
- The enrollment limit was set.
- The fitness level and prerequisites were set.
- The required equipment was stored.
- If publish was chosen and validation passed, Class status was Published.
- If trainer chose Save as Draft, Class status was Draft.
- If errors happen, the system shows an error and does not save.

3. Full-dressed: Host a Scheduled Class Session

ID UC Host a Scheduled Class Session

Scope Health & Fitness system

Level user goal

Stakeholders and interests

Customer (General user) — person attending a class, wants fair admission and accurate attendance tracking.

Trainer — person hosting the class, wants to run session smoothly, admit participants, and track attendance.

Admin — person monitoring policy compliance and participant disputes.

System maintainer — person responsible for system uptime and correct roster/attendance functions.

Precondition: Trainer is authenticated and has an active scheduled class today.

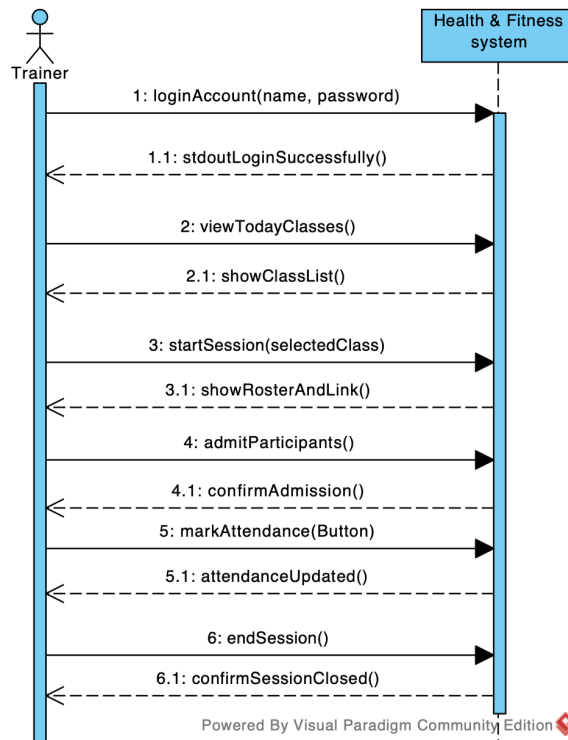
Postcondition: Session is closed; attendance, duration, and notes are stored; statistics are updated.

Main success scenario:

1. trainer logs in to the system.
2. trainer opens Today's Classes page.
3. system displays the trainer's scheduled classes for the day.
4. trainer selects the desired class.
5. trainer presses Start Session.
6. system opens the roster, attendance controls, and if online, shows the meeting link.
7. participants join the class.
8. trainer checks registration and prerequisites for each participant.
9. system admits eligible participants and shows confirmation.
10. trainer marks attendance as participants join.
11. late participants may join if seats remain; trainer admits them.
12. trainer runs the class session.
13. when the workout ends, trainer presses End Session.
14. system saves attendance, duration, and optional notes.
15. system updates class statistics and closes the session.

Alternate paths:

- a.* anytime system does not respond — trainer may retry; if failure persists, session may be canceled.
- 6.a meeting link fails to generate — trainer pastes external link manually; continue to step 7.
- 9.a participant not registered or missing required prerequisites — system denies admission and shows message.
- 11.a class is full — late participant placed on waitlist for this session.
- 12.a no participants join within grace period — trainer cancels session; system notifies registered users.
- 13.a trainer cancels mid-session due to technical issues — system notifies users and logs partial session.
- 14.a storage/network failure — attendance and notes kept locally until sync succeeds.



Contract CO3: hostScheduledClassSession

Operation:

hostScheduledClassSession

Pre-condition:

Trainer is logged in and has selected a scheduled class for today.

Post-conditions:

- The session was opened for that class.
- The roster and, if online, the meeting link were shown.
- Eligible participants were admitted; ineligible were not (or waitlisted).
- Attendance marks were saved.
- The session was ended and marked closed.
- Duration and optional notes were stored.
- Class statistics were updated.

- **Connor Griffin**

1. Full-Dressed: Log Workout Session

ID: UC Log a Workout Session

Scope: Health and Fitness system

Level: user goal

Stakeholders and Interests:

User: wants quick, accurate logging and immediate dashboard updates.

Admin: needs data integrity and auditability

System maintain: needs reliable storage and aggregation

Precondition: User is authenticated and has access to the workout page

Postcondition: Workout is saved, dashboard(weekly minutes, calories, goal progress) is updated

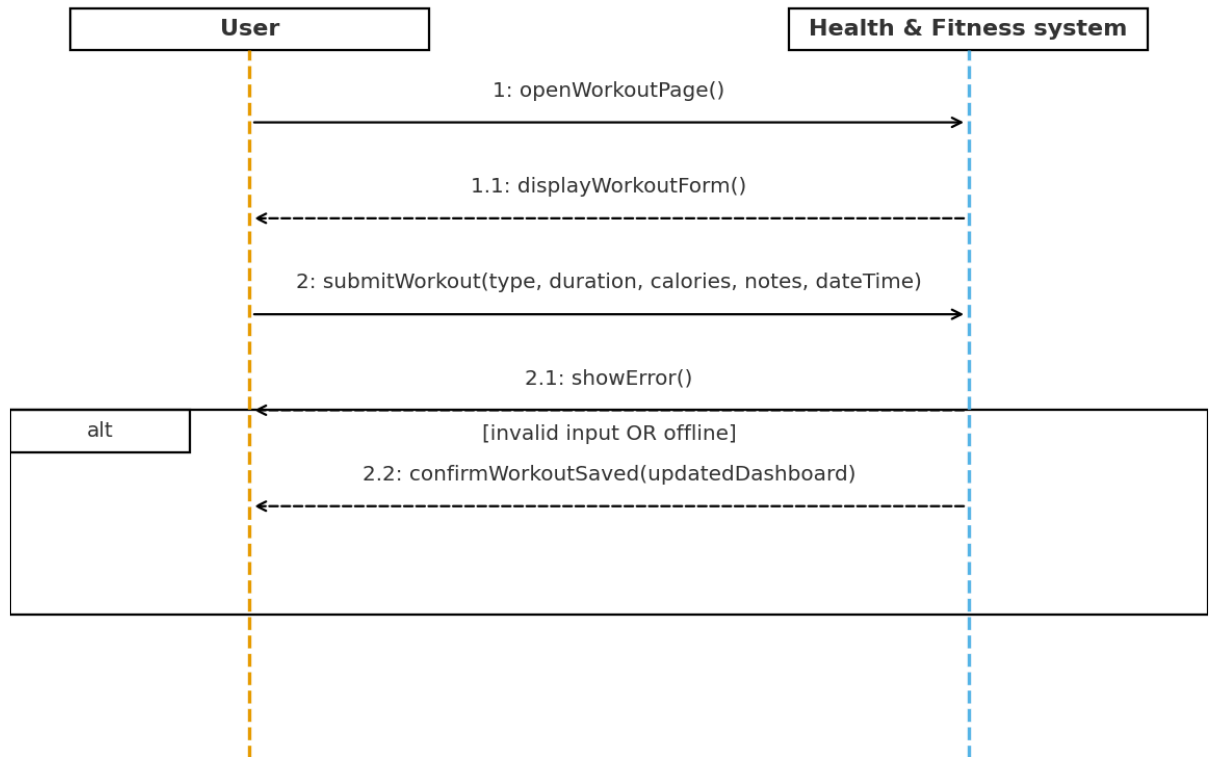
Main success scenario:

1. user opens the Workout page.
2. system displays the workout form (type, duration, calories, optional notes, default date/time).
3. user selects workout type (cardio, strength, yoga, or custom).
4. user enters duration and calories; optionally notes.
5. user clicks Save Workout.
6. system validates required fields and numeric ranges.
7. system stores the workout and updates dashboard aggregates.
8. system shows confirmation and refreshed dashboard summary.

Alternate paths:

- a. * any time the system is unreachable — show connection error; allow retry or offline queue.
- 3.a user leaves workout type empty — system highlights missing field; user fills it and continues.
- 6.a invalid values (negative/too large) — system shows validation error; user corrects.
- 7.a possible duplicate within short window — system warns; user confirms or cancels

SSD1 - UC1 Log Workout (Two-Lifeline)



Contract OC1: createWorkout

Operation:

`createWorkout(userId, type, durationMin, calories, notes, dateTime)`

Pre-conditions:

- `userId` corresponds to an authenticated user.
- `type` \in {cardio, strength, yoga, custom}.
- `durationMin` ≥ 0 , `calories` ≥ 0 . Post-conditions (Success):
- A new Workout is created and persisted.
- Dashboard aggregates for the user are recalculated (or flagged for recalculation).
- Confirmation is returned with `workoutId`.

Exceptions:

- `ValidationError` for missing/invalid fields.
- `DuplicateWarning` if similar workout exists within a brief threshold window (optional).

2. Full-Dressed: Join a Training Plan

ID: UC Join Plan

Scope: Health & Fitness system

Level: user goal

Stakeholders and interests:

 User: wants to follow a structured plan that matches goals, equipment, and level.

 Trainer: wants appropriate participants and plan adoption.

 Admin: ensures only approved (Active) plans are joinable.

Precondition: User is logged in; the selected plan exists in the catalog.

Postcondition: Enrollment is created (if plan is Active); plan appears on dashboard; progress can begin.

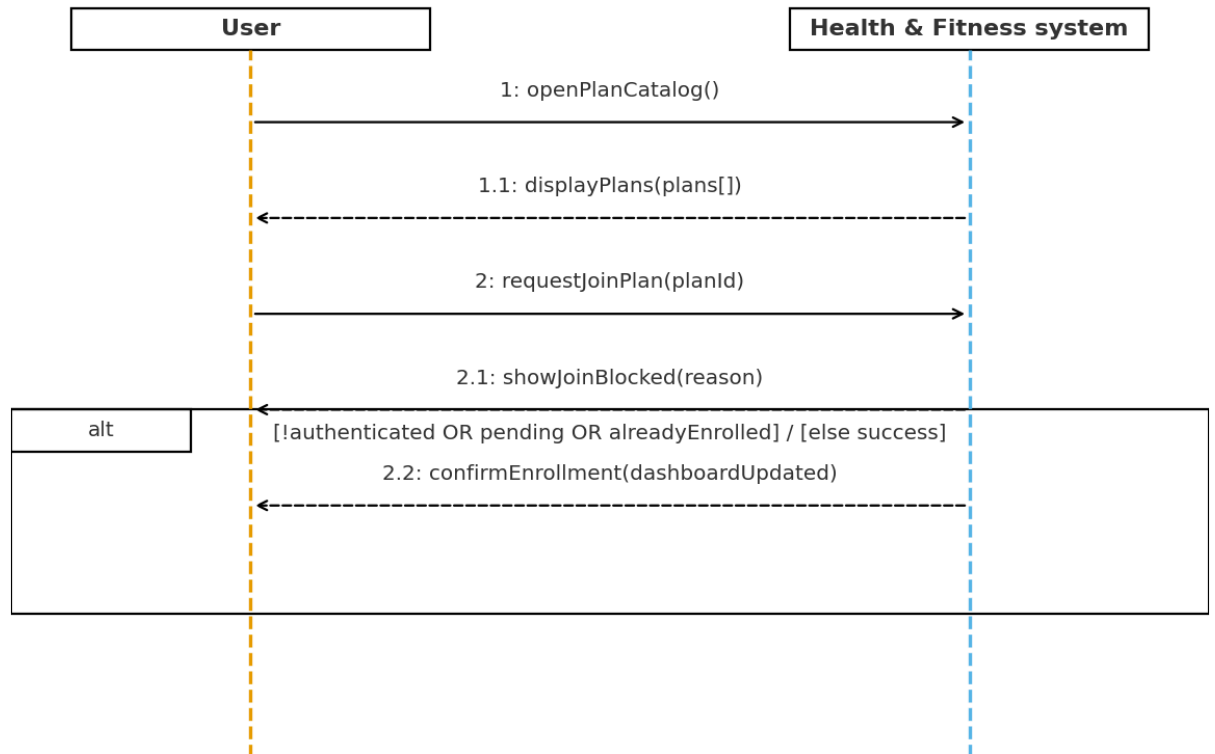
Main success scenario:

1. user browses the plan catalog.
2. system shows plans with key details (difficulty, equipment, recommended level, average session length).
3. user opens a plan and reviews details.
4. user clicks Join Plan.
5. system verifies authentication and confirms plan status is Active.
6. system creates an enrollment and confirms.
7. system updates the dashboard to include the plan card and next session.

Alternate paths:

- a. * user not logged in — system requests login; on success return to step 4.
- 5.a plan is Pending Review — system shows “not available yet”; user can choose another plan or wait.
- 6.a user already enrolled and active — system offers “Go to plan” instead of duplicating enrollment.
- a. * system/catalog unavailable — system shows error; user may retry later..

SSD2 - UC2 Join Training Plan (Two-Lifeline)



Contract OC2: enrollInPlan

Operation:

`enrollInPlan(userId, planId)`

Pre-conditions:

- `userId` is authenticated.
- `planId` exists; plan status is Active.

Post-conditions (Success):

- A new Enrollment is created (`isActive=true`, `progress=0%`).
- The user's dashboard is updated to show the plan and next session.
- Confirmation is returned with `enrollmentId`.

Exceptions:

- `NotAuthenticated` if the user is not logged in.
- `PlanUnavailable` if plan status \neq Active.
- `EnrollmentExists` if an active enrollment already exists.

3. Full-Dressed: Edit/Delete workout entry

ID: UC Edit/Delete Workout Entry

Scope: Health & Fitness system

Level: User goal

Stakeholders and interests:

User: wants to correct mistakes or remove accidental entries while keeping totals accurate.

Admin:needs auditability for changes/deletions.

System maintainer: needs consistent recalculation of aggregates after edits/deletes.

Precondition: User is authenticated and owns the selected workout entry.

Postcondition: Workout updated or removed; dashboard and weekly aggregates recalculated.

Main success scenario:

1. user opens Workout History.
2. system displays a list of workouts with filters.
3. user selects a workout to open details.
4. user chooses Edit and modifies fields (type, duration, calories, notes).
5. user clicks Save Changes.
6. system validates and saves the update.
7. system recalculates aggregates and shows confirmation.

Alternate paths:

3.a user chooses Delete instead of Edit — system asks to confirm.

3.a.1 user confirms delete — system soft-deletes the workout; recalculates aggregates; shows undo option.

3.a.2 user cancels — no change.

6.a invalid values — system shows field errors; user corrects and resubmits.

a.* server unavailable — system shows error; retry later; changes are not applied until saved.

Hours Worked:

Jack - 10 hours

Ethan - 9 hours

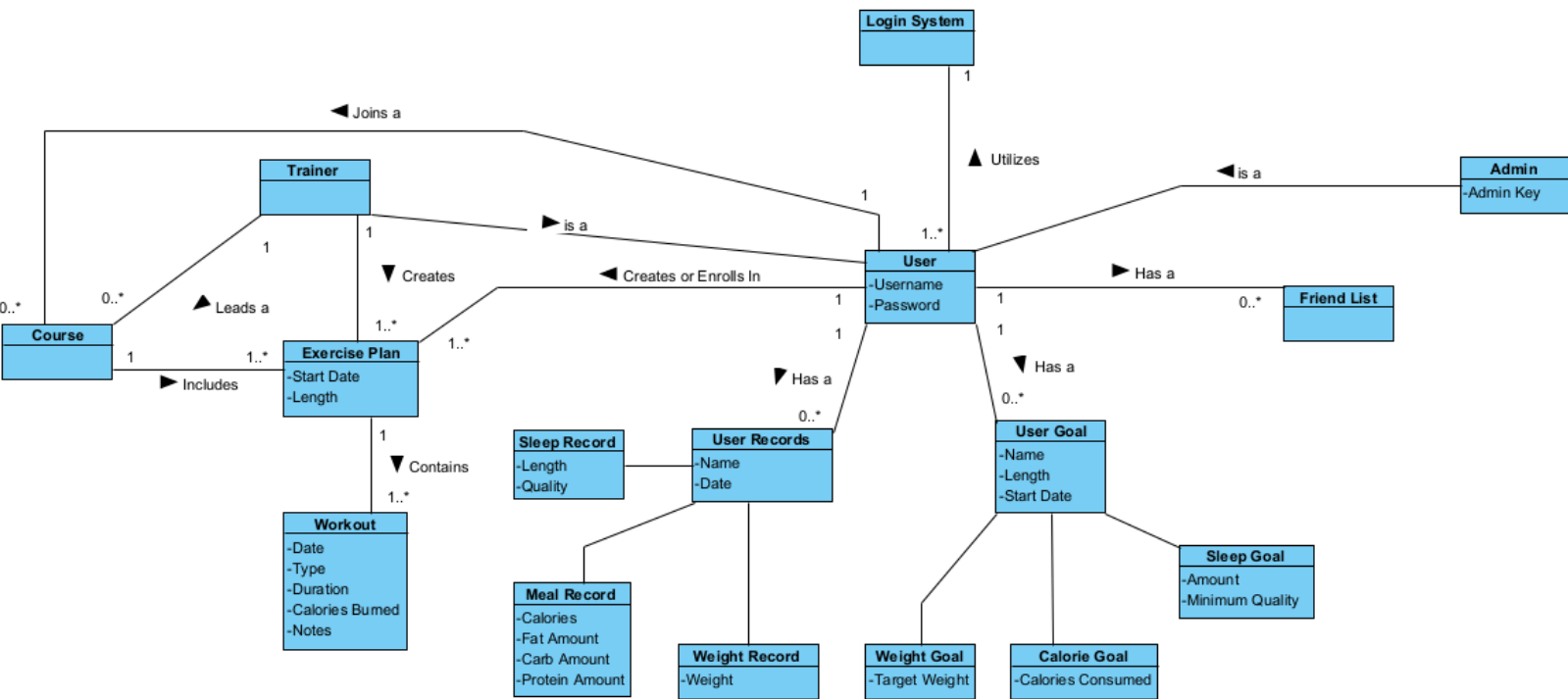
Dannis - 9 hours

Savannah - 11 hours

Mason - 11 hours

Connor - 12 hours

DOMAIN MODEL



Wireframes Drafts:

Home Screen



User Info

Past Sleep

Past Workouts

Past meals

Contact Trainer

Request Trainer

User Support

Settings

Nutritional goals

Calories:

Fat:
protein:

Carbs:

Injured?

Log Meal

Log Workout

Create Exercise

Log Sleep

Log Weight

Today's Workout

Type:

Place:

length:

Plan: Link to workout plan

OsoFIT

Login



Enter email:

Enter password:

[Forgot password?](#)

[Create Account](#)



Account Creation

Create Account

Email:

Weight:

Password:

Gender:

Confirm Password:

Experience:

Age:

upload profile pic

Confirm

Log Meal

Meal name:

Calories:

Fat (g):

Carbs (g):

Protein (g):

Logged this meal before?

Save Meal