

# CSE 115A – Introduction to Software Engineering

## Release Summary

Product Name: RepIt

Team Name: RepIt

11/29/2024

**Key user stories and acceptance criteria:** Give a list of key user stories with their acceptance criteria that can serve as a guide for an acceptance test.

### Key User Story topics:

- Account sign-up/sign-in
- Dashboard (w/AI)
- Creating sessions
- Editing and viewing sessions
- Deleting sessions
- Creating, editing, and deleting goals
- Creating, editing, and deleting supplements
- Viewing nearby facilities
- Adding and deleting equipment from nearby facilities

### User Stories:

As a new fitness enjoyer, I should be able to log in, so that I can save my progress

Given a user is on the login page

When they select to login with email or Gmail via Clerk

Then they should be successfully authenticated and redirected to their dashboard

When they enter invalid credentials

Then they should see an appropriate error message

As a gym-goer, I would like to be able to see/edit session history, so that I can see what I worked on last week

Given a logged-in user

When they navigate to session history

Then they should see a list of their previous workout sessions

When they select a specific session

Then they should be able to view and edit the details

When they save changes to a session

Then the updates should be persisted and reflected immediately

As a gym-goer, I should be able to create a session, so that I can track my journey

Given a logged-in user

When they select to create a new session

Then they should be able to input exercises, sets, reps, and weights

When they save the session

Then it should appear in their session history

As a new gym member, I should be able to see the machines in my current gym, so that I know which gym to visit

Given a logged-in user

When they select a specific gym location

Then they should see a list of all available machines

As a local gym member, I should be able to add machine to a gym, so that what machines there'd be at that gym for my sessions

Given a logged-in user

When they select to add a new machine

Then they should be able to input machine details

When they submit the machine information

Then it should appear in the gym's machine list

As a consistent athlete, I should be able to set goals and see previous goals, so that I can plan out my progression

Given a logged-in user

When they create a new goal

Then it should be saved with target date and metrics

When they view their goals dashboard

Then they should see current and past goals with progress indicators

When they complete a goal

Then it should be marked as achieved and archived

As an athlete, I should be able to create/see previous lists of supplements, so that I know what supplements I am currently supposed to take

Given a logged-in user

When they add supplements to their list

Then they should be able to specify name, dosage, and timing

When they set reminders

Then they should receive notifications at specified times

When they mark a supplement as taken

Then it should be recorded in their supplement history

**Known Problems:** List the major bugs (you can reference your Test Report), omissions (missing

functionality, edge cases that are not handled), design shortcuts (e.g. hard coded data), etc.

- Bugs:
  - (AI) Does not always respond with correct format/wrong date and therefore the page may break. This usually happens when the question is not correctly formatted or the AI is unable to find keywords in the question.
  - (NAVBAR) The Clerk account modal disappears once the user moves the cursor
    - Only occurs on desktop when using the small navbar *and* browser is in focus
  - (NAVBAR) When app initially loads, the Clerk button in the navbar doesn't render until the page is refreshed
  - (EQUIPMENT) The add equipment and view equipment forms are not responsive for devices with small dimensions and some of the letters in the form are cut off
  - (FACILITIES) The background color for the "I don't see my facility" does not change to white when changed to light mode
- Omissions:
  - (FACILITIES) User is unable to edit existing equipment of facilities
  - (FACILITIES) In the facilities page, when the "I don't see my facility" button is clicked, it will take some time to fetch nearby facilities
    - Due to un-optimized use of OpenStreetMaps (OSM) API
  - The "I don't see my facility" button can be clicked for (unwanted) duplicate requests, which results in exponentially longer OSM fetching
  - (AI) Not connected to the chart component yet. Although the data is retrieved from the response, it is not yet updating the chart component.
  - (GITHUB) Vulnerability issue on github
    - "Regular Expression Denial of Service (ReDoS) in cross-spawn #5"
  - Some failing test cases for facility
- Design shortcuts:
  - Inconsistent color palette for certain components
    - Sheets/Forms for sessions, goals, supplements
    - Delete confirmation modals for sessions, goals, supplements
    - Theme picker modal on navbar
  - Some minor unsolved ESLint warnings when running ESLint
  - Pseudo-delete (filtering) when deleting equipment from facility

**Product Backlog:** Provide a list the high priority user stories and bug fixes that can serve as a guide for a follow-on project.

User Stories:

As a consistent user interested in the analytics of the data I have logged in the past, I should be able to see visual representations of questions I ask the AI in order to better understand the AI response.

As a consistent athlete, I should be able to see graphs with my weight/sets/bodyweight progressions, so that I can see if I'm on track for my goals

Bug Fixes:

AI should always return correctly formatted responses so that there are no interruptions for the users. This includes handling queries that do not contain valid questions.

The chart component needs to be shown when visual representations are required. Furthermore, any data displayed should be relevant to the previous AI response.

**Note:** There will be no penalty for system failures during the project review that are due to known problems.