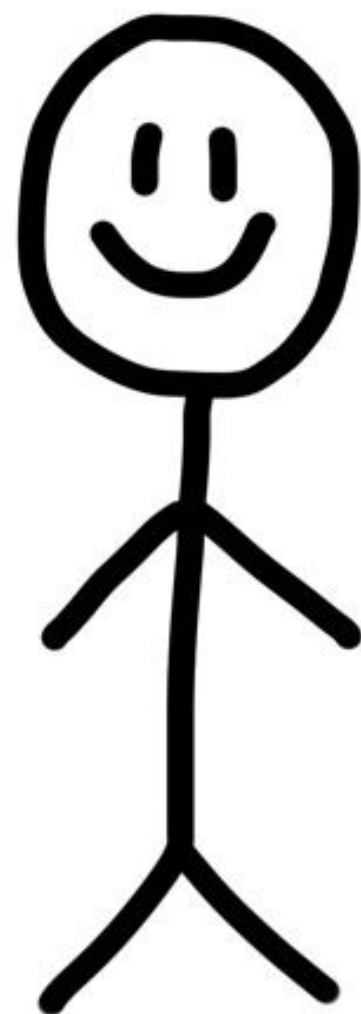


My Personalized Fitness Tracker

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Usecase Diagram

MyFitnessTracker

MyFitnessTracker
User



1) Add
User
Profile

2) Track
Activities

3) Calorie
Manager

4) Set
Goals

5) BMI
Calculator

6) Activity
Generator

7) Track
Activity +
Duration

8) Track
Amount of
Steps

9) Track
Hours of
Sleep

11) Calorie
Tracker

12) BMR
Calculator

13) Set
Body
Weight Goal

14) Set
Step Goal

15) Set
Activity
Duration
Goal

10) Delete
Activity

<<extend>>

Use Case Diagram Description (Part 1)

1: Add User Profile	
Overview	This creates a profile for the user, which includes their name, age, weight, and height. This information is stored in a text file.
Related use cases:	N/A
Actors	MyFitnessTracker User
Pre Conditions (Optional)	
Post Conditions (Optional)	

2: Track Activities	
Overview	Allows user to track activity+duration, step count, and hours slept. This information is stored in a text file.
Related use cases:	Generalization of: (7) Track Activities + Duration (8) Track Amount of Steps (9) Track Hours of Sleep
Actors	MyFitnessTracker User
Pre Conditions (Optional)	
Post Conditions (Optional)	

3: Calorie Manager	
Overview	Manages both BMR Calculator and Calorie Tracker allowing the user to choose between these actions.
Related use cases:	Generalization of... (11) Calorie Tracker (12) BMR Calculator
Actors	MyFitnessTracker User
Pre Conditions (Optional)	
Post Conditions (Optional)	

4 Set Goals	
Overview	This allows the user to set their weight, step, and activity duration goals. All of this information is stored in a text file for the user's convenience and helps the user keep track of their fitness progress.
Related use cases:	Generalization of... (12) Set Body Weight Goal (13) Set Step Goal (14) Set Activity Duration Goal
Actors	MyFitnessTracker User
Pre Conditions (Optional)	
Post Conditions (Optional)	

5: BMI Calculator	
Overview	Uses data based on user input or previously existing profile files and calculates BMI. Generates brief description along with BMI.
Related use cases:	N/A
Actors	MyFitnessTracker User
Pre Conditions (Optional)	
Post Conditions (Optional)	

6: Activity Generator	
Overview	Uses a random number generator to randomly generate an activity as a suggestion to the user from an array. The activity generated has three levels of difficulty: beginner, intermediate, and advanced.
Related use cases:	N/a
Actors	MyFitnessTracker User
Pre Conditions (Optional)	
Post Conditions (Optional)	

7: Track Activity + Duration	
Overview	Allows the user to record the name of the fitness activity that they did and the duration in minutes. Activities are assigned an id number. This information is saved to a text file.
Related use cases:	Generalized by: (2) Track Activities Extended by: (10) Delete Activity
Actors	MyFitnessTracker User
Pre Conditions (Optional)	
Post Conditions (Optional)	

8: Track Amount of Steps	
Overview	Allows the user to record their step count. This also converts their step count to distance in miles. This information is saved in a text file.
Related use cases:	Generalized by: (2) Track Activities
Actors	MyFitnessTracker User
Pre Conditions (Optional)	
Post Conditions (Optional)	

9: Track Hours of Sleep	
Overview	Allows the user to record the hours they slept by letting users enter their bedtime and awake time in military time format, which then calculates the hours slept. This information is then saved to a text file.
Related use cases:	Generalized by: (2) Track Activities
Actors	MyFitnessTracker User
Pre Conditions (Optional)	
Post Conditions (Optional)	

Use Case Diagram Description (Part 2)

10: Delete Activity	
Overview	Deletes the activity and duration saved by the user using the activity's id. Also updates the deletion in a text file.
Related use cases:	Extends: (7) Track Activity and Duration
Actors	MyFitnessTracker User
Pre Conditions (Optional)	
Post Conditions (Optional)	

11: Calorie Tracker	
Overview	Allows user to input their caloric intakes and keeps track of their daily caloric intake. Updates/creates text file storing this information.
Related use cases:	Generalized by... (3) Calorie Manager
Actors	MyFitnessTracker User
Pre Conditions (Optional)	
Post Conditions (Optional)	

12: BMR Calculator	
Overview	Calculates the user's BMR and daily caloric intake goal to reach their goal weight. Requests user information and retrieves information that may be found in previously created text files.
Related use cases:	Generalized by... (3) Calorie Manager
Actors	MyFitnessTracker User
Pre Conditions (Optional)	
Post Conditions (Optional)	

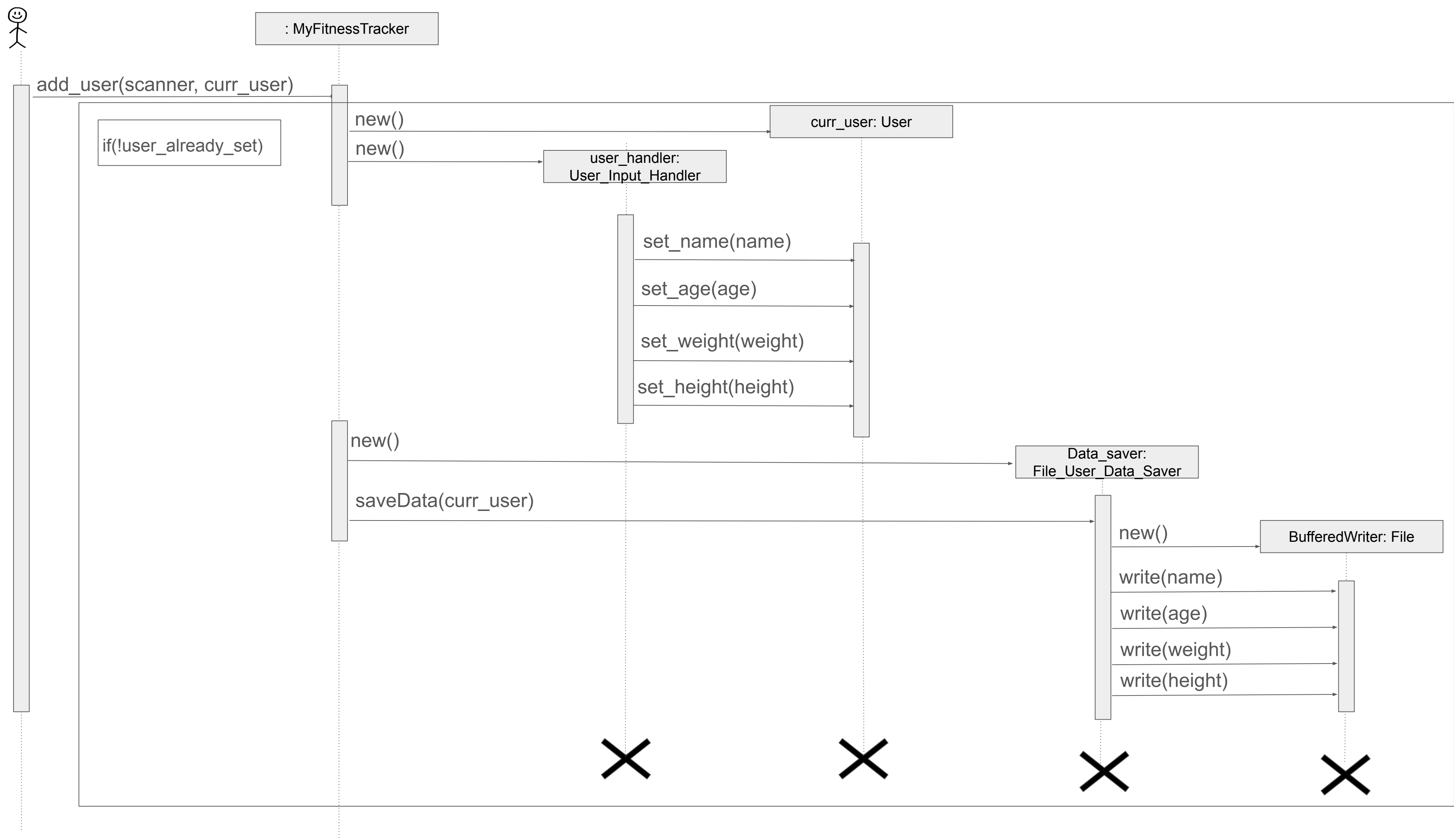
13: Set Body Weight Goal	
Overview	This stores the user's body weight goal (in pounds) in a text file and allows the user to record how they progress upon their body weight goals.
Related use cases:	Generalized by... (4) Set Goals
Actors	MyFitnessTracker User
Pre Conditions (Optional)	
Post Conditions (Optional)	

14: Set Step Goal	
Overview	This stores the user's goal step count in a text file and allows the user to record how they progress upon their step count goals.
Related use cases:	Generalized by... (4) Set Goals
Actors	MyFitnessTracker User
Pre Conditions (Optional)	
Post Conditions (Optional)	

15: Set Activity Duration Goal	
Overview	This stores the user's activity duration goal in a text file. Activity duration is subdivided into three categories: move, stand, and exercise hours. This allows the user to record how they progress upon their activity duration goals.
Related use cases:	Generalized by... (4) Set Goals
Actors	MyFitnessTracker User
Pre Conditions (Optional)	
Post Conditions (Optional)	

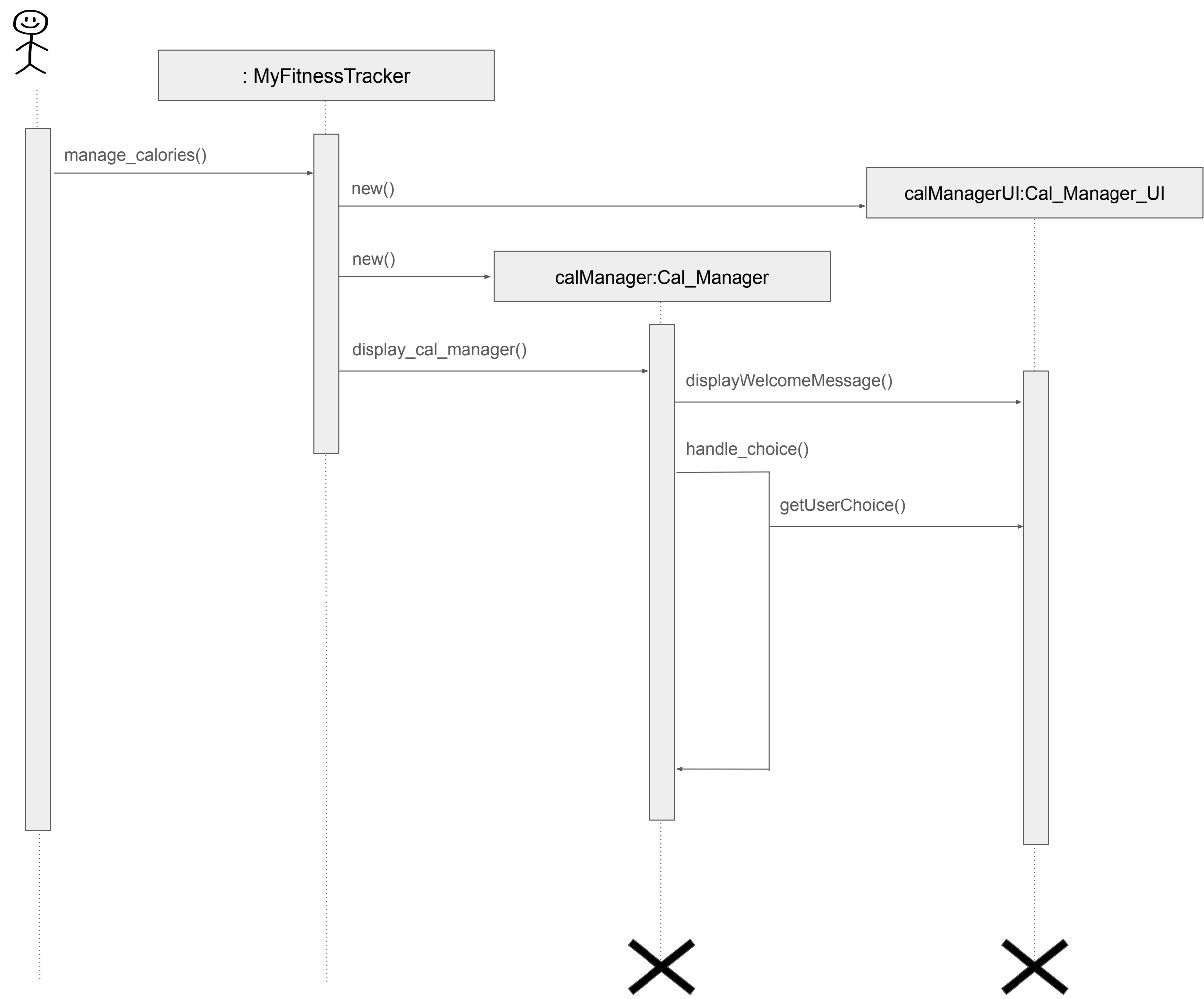
Sequence Diagram: Add User Profile

MyFitnessTracker User



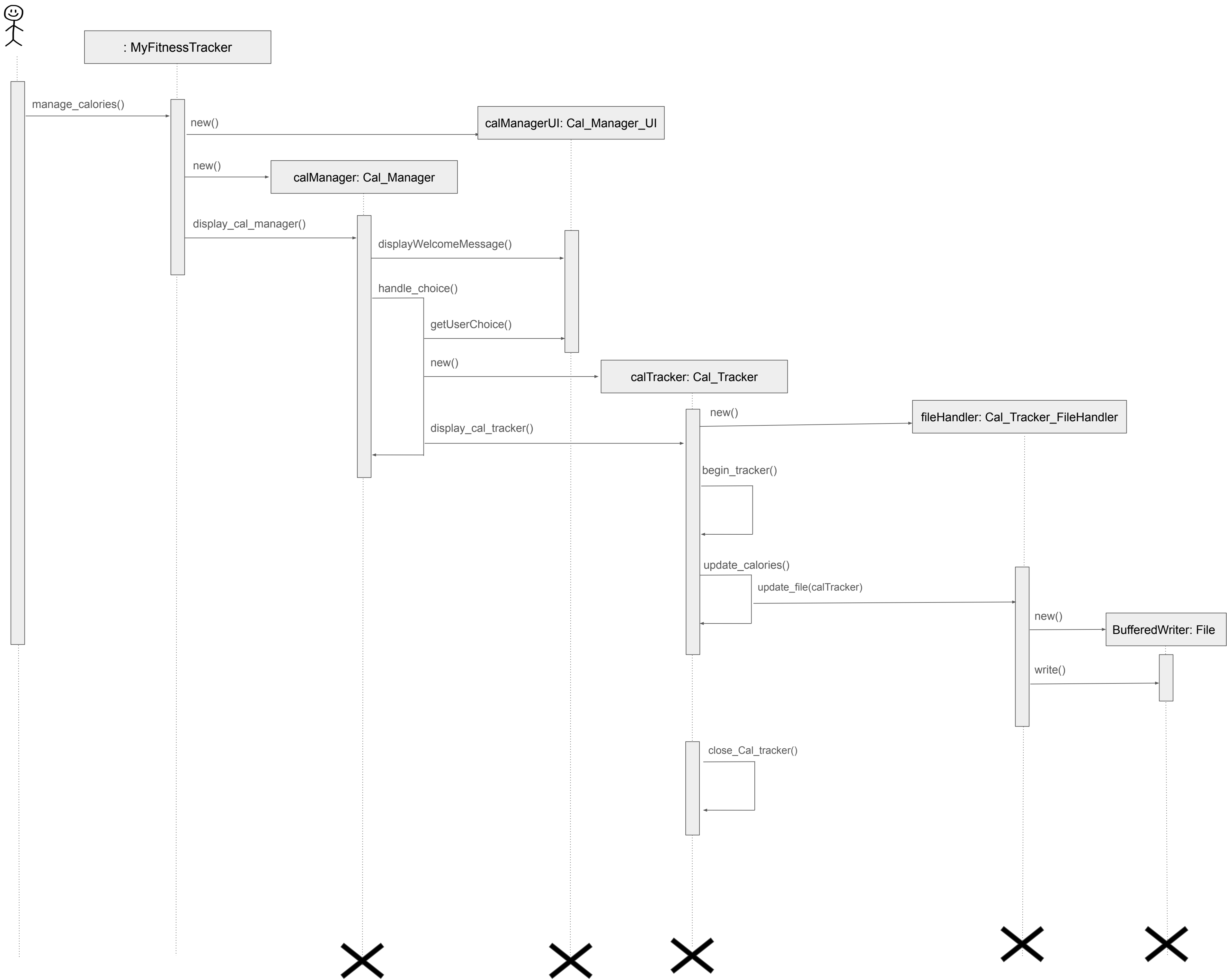
Sequence Diagram: Calorie Manager

MyFitnessTracker User



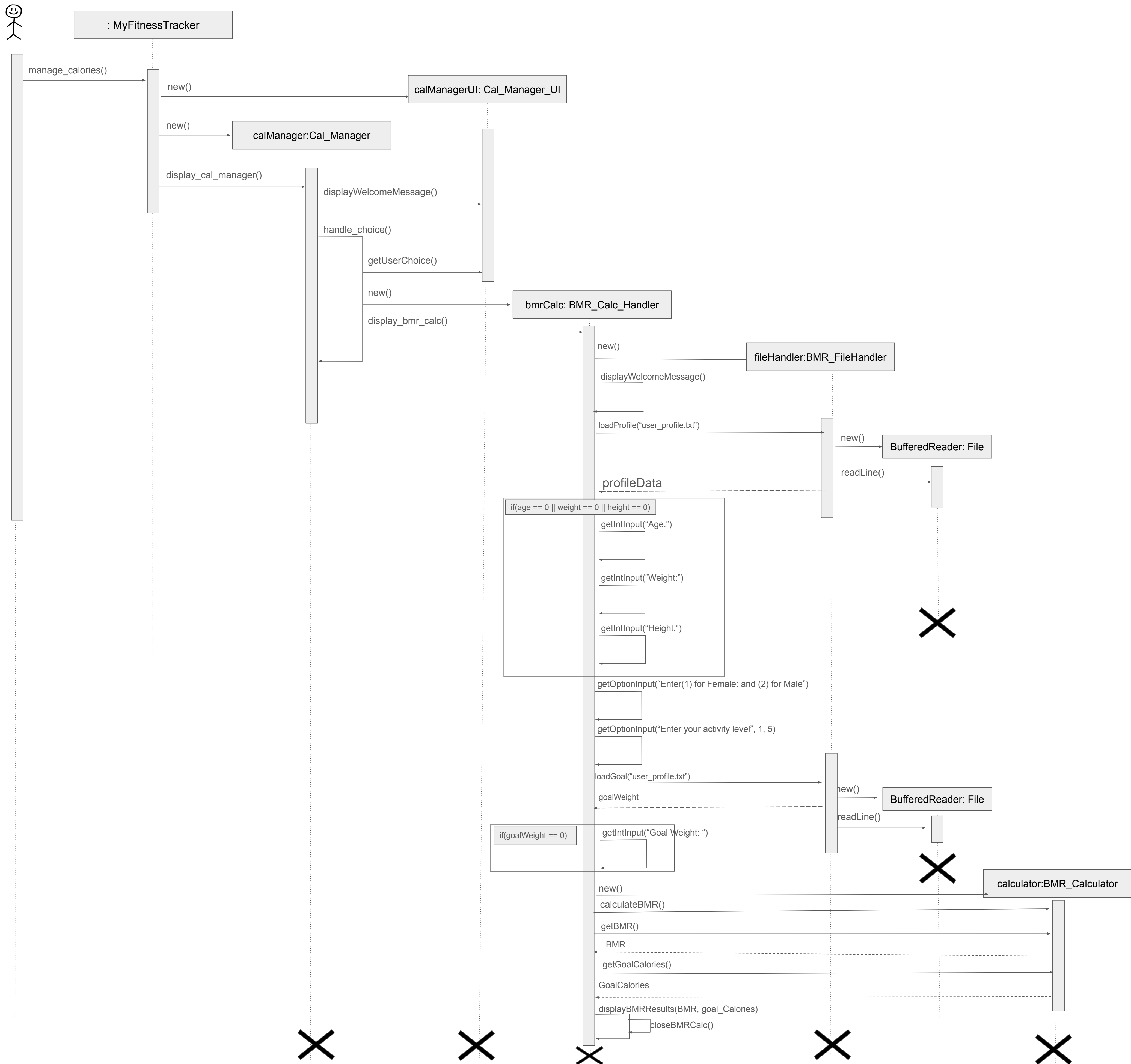
Sequence Diagram: Calorie Tracker

MyFitnessTracker User

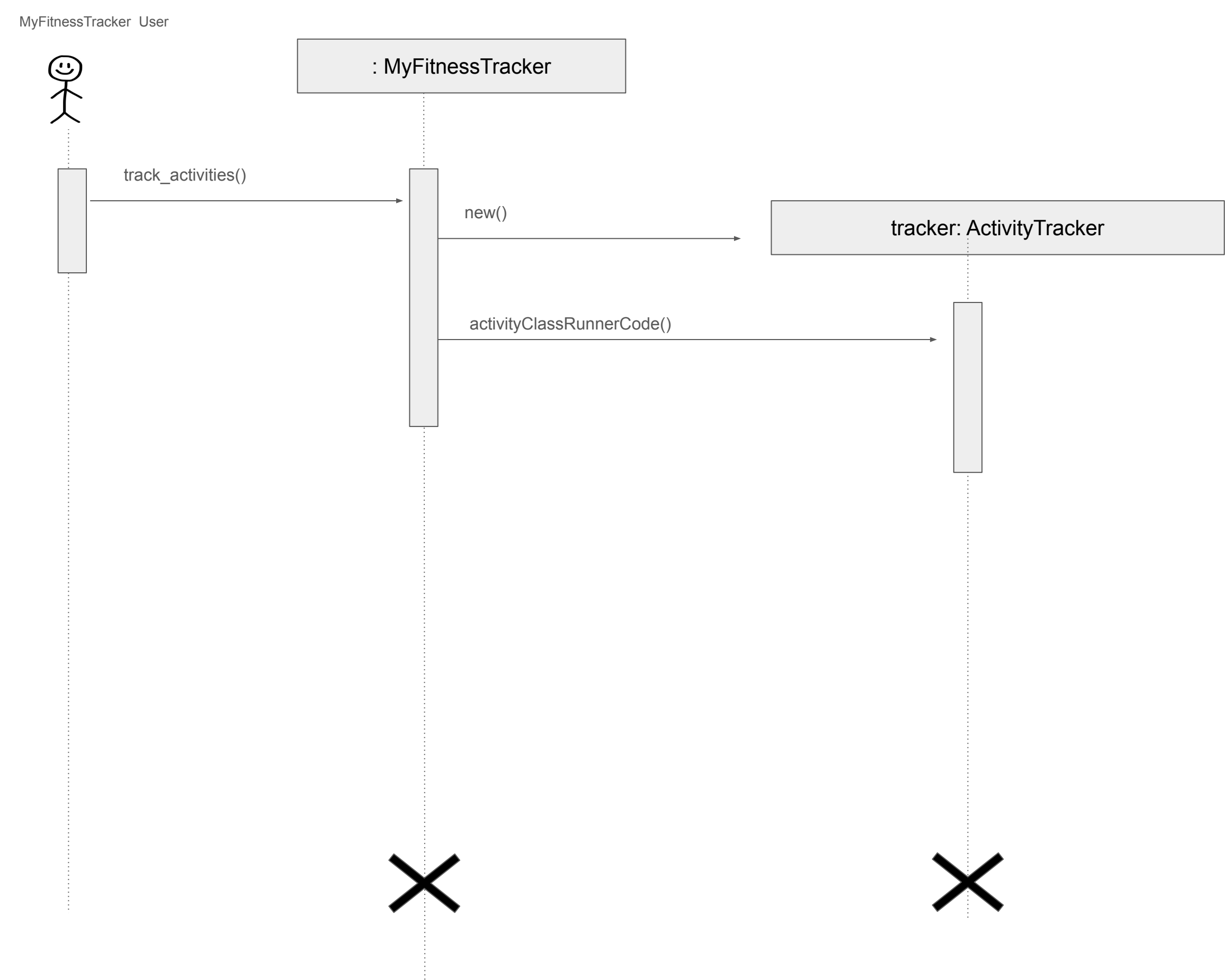


Sequence Diagram: BMR Calculator

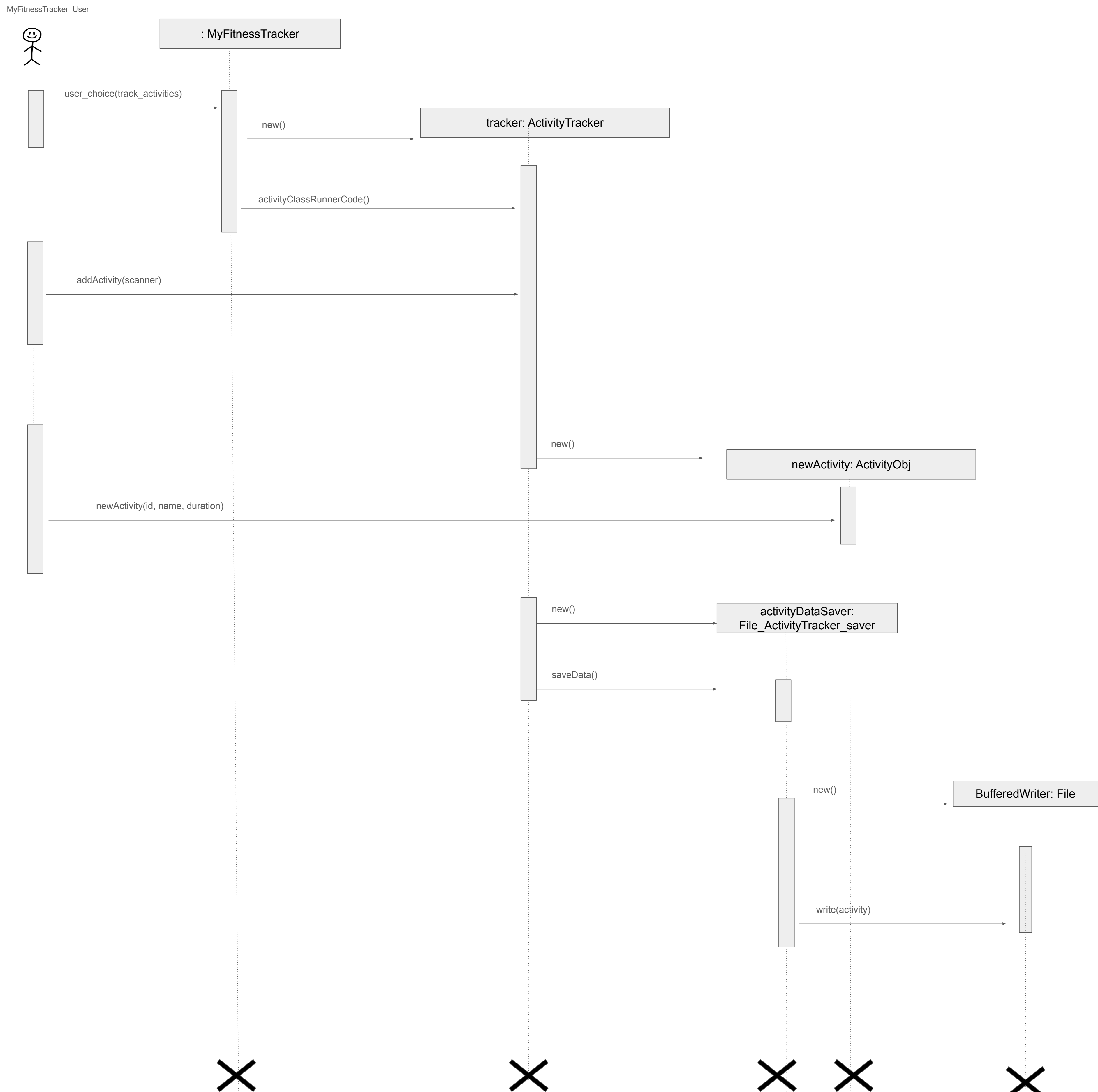
MyFitnessTracker User



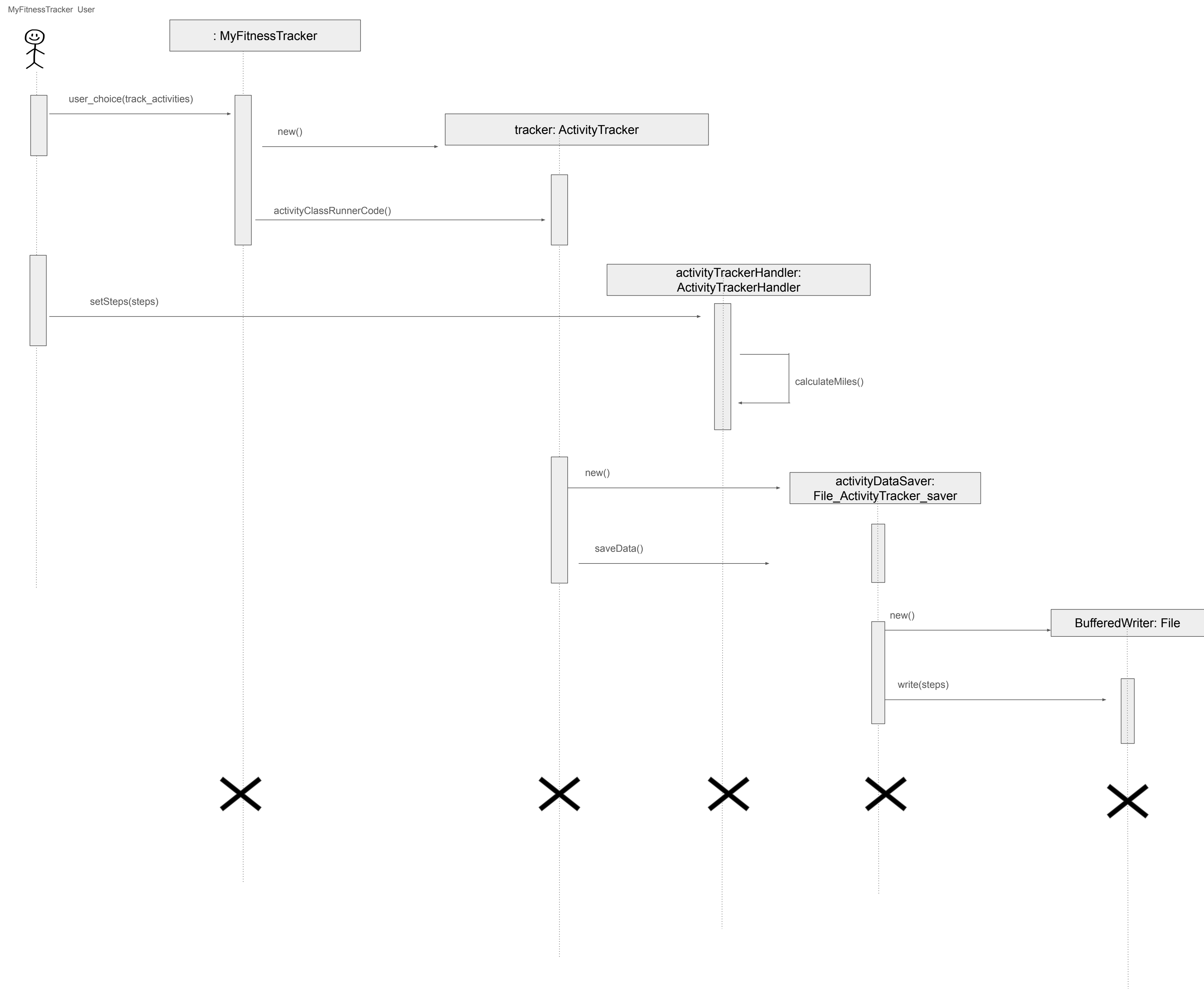
Sequence Diagram: Track Activities



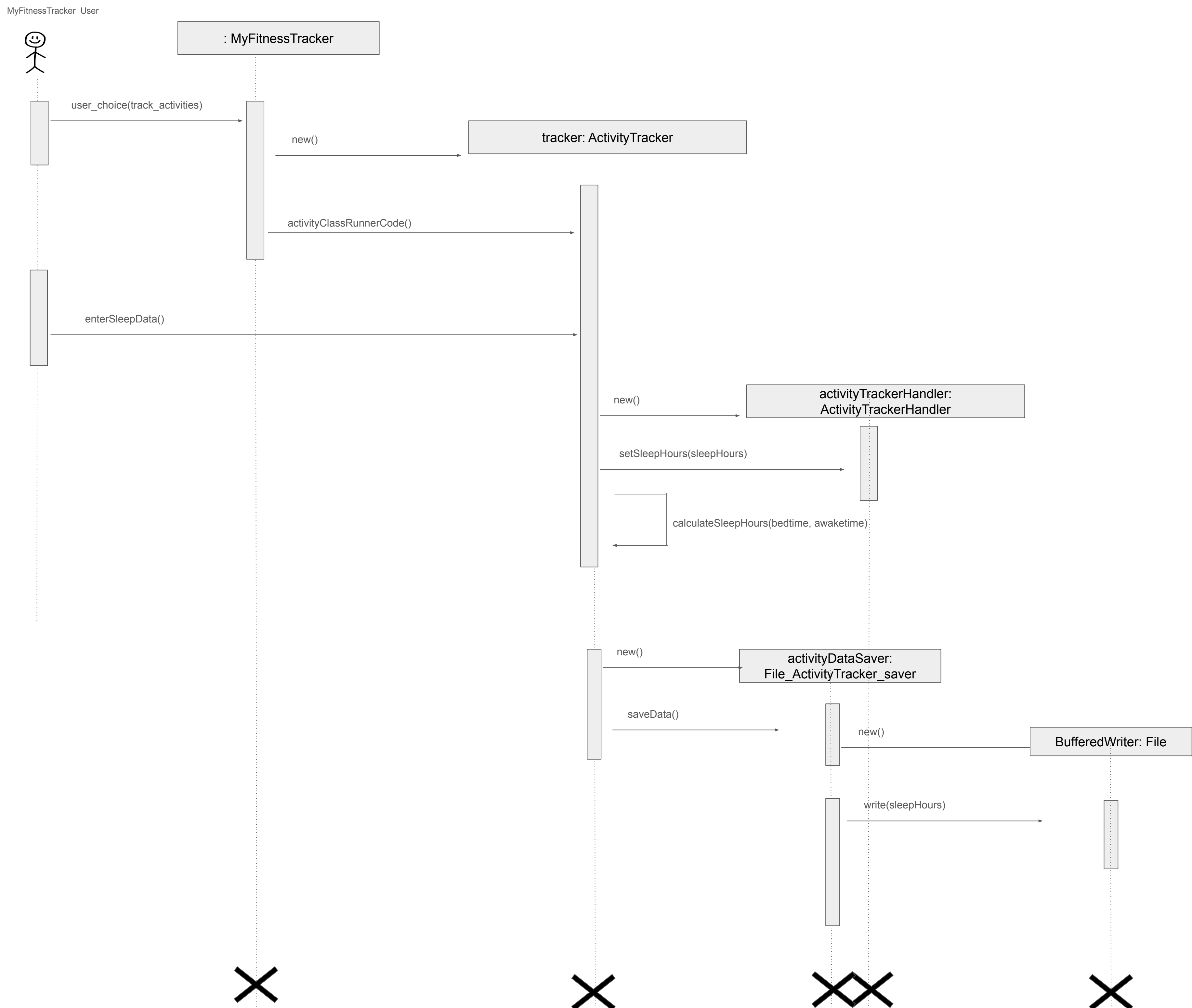
Sequence Diagram: Track Activity + Duration



Sequence Diagram: Track Amount of Steps

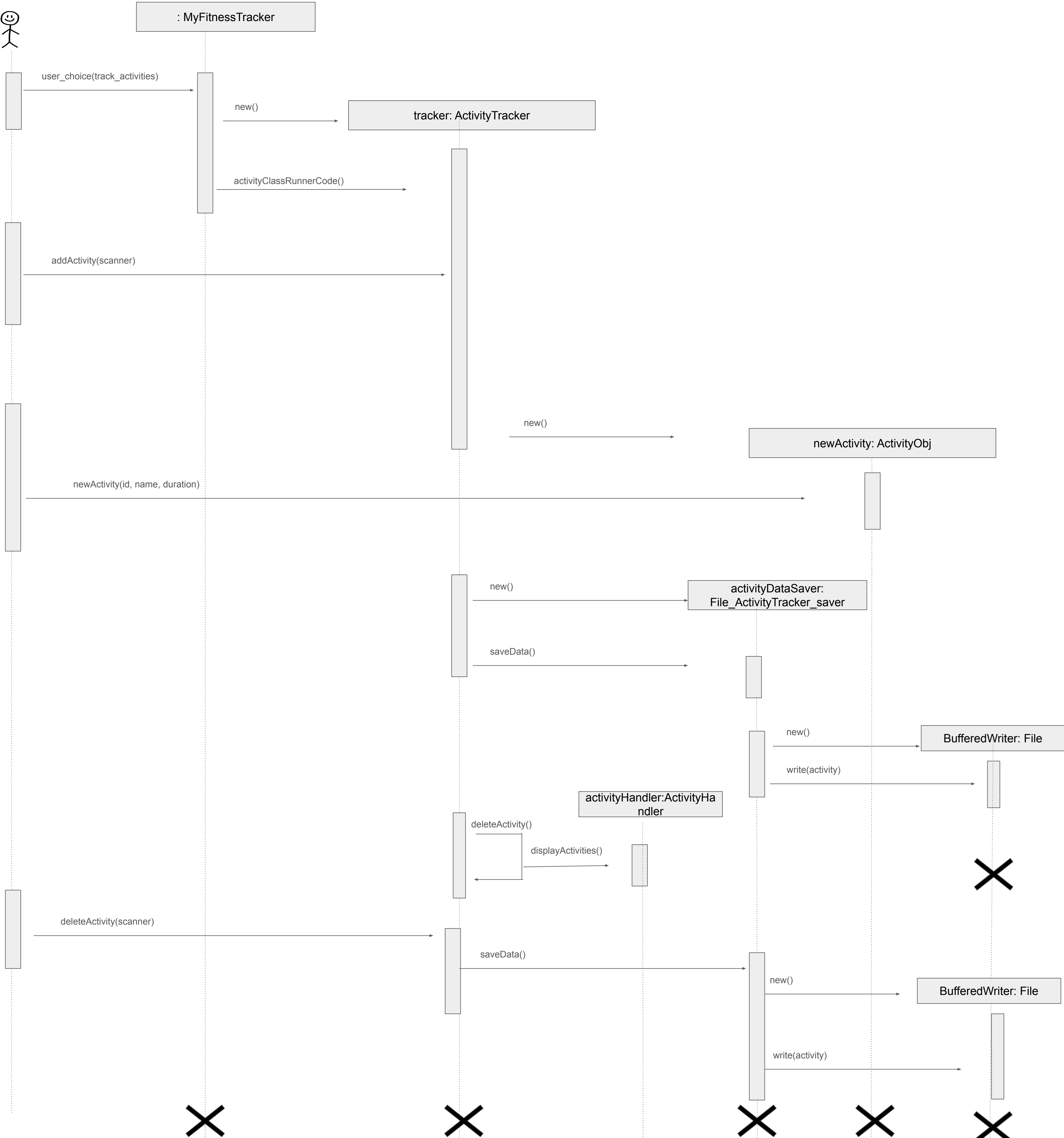


Sequence Diagram: Track Hours of Sleep



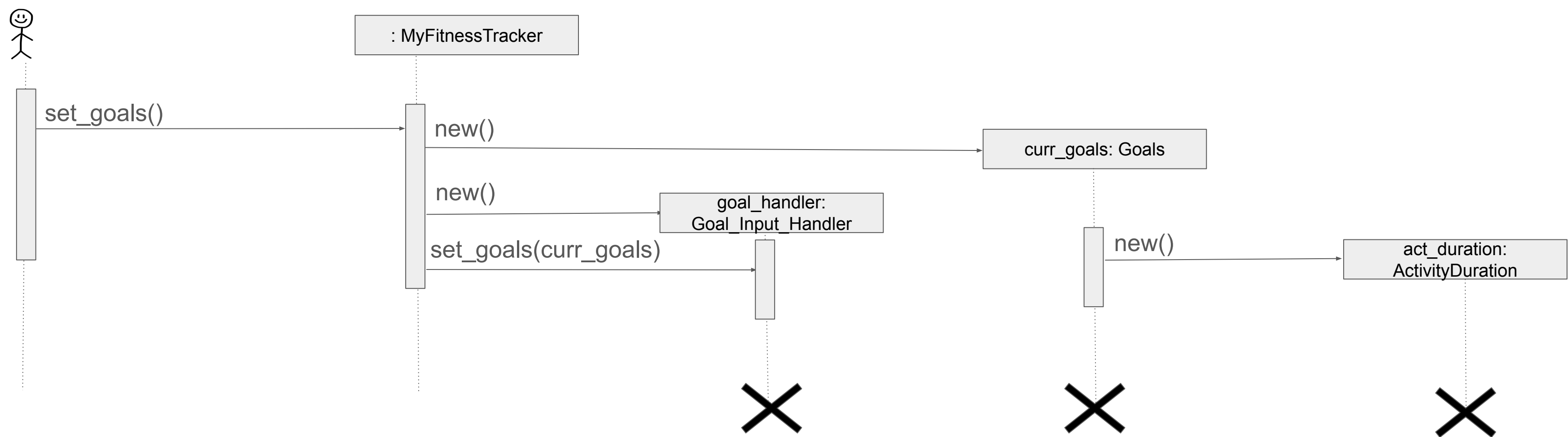
Sequence Diagram: Delete Activity

MyFitnessTracker User



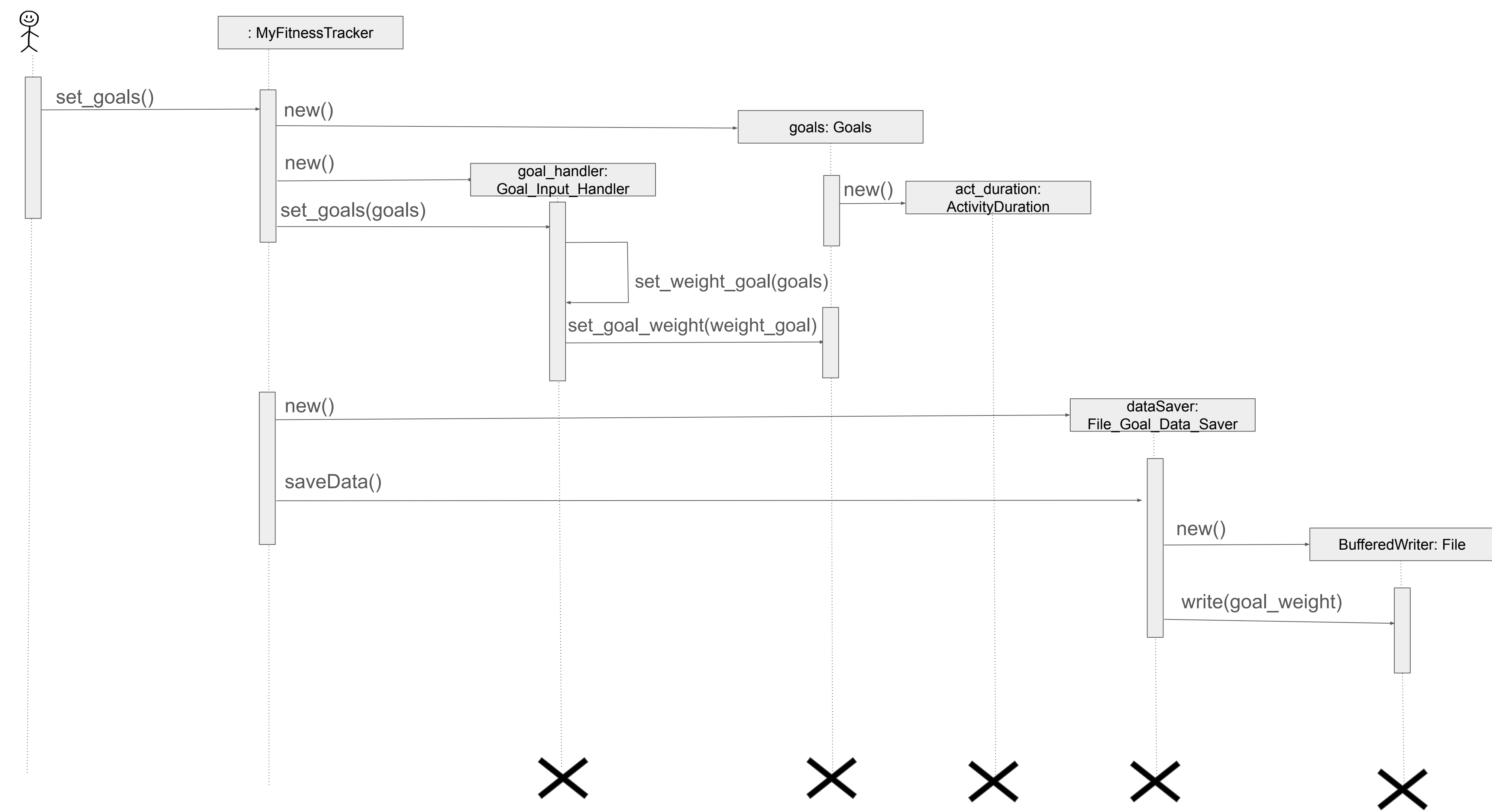
Sequence Diagram: Set Goals

MyFitnessTracker User



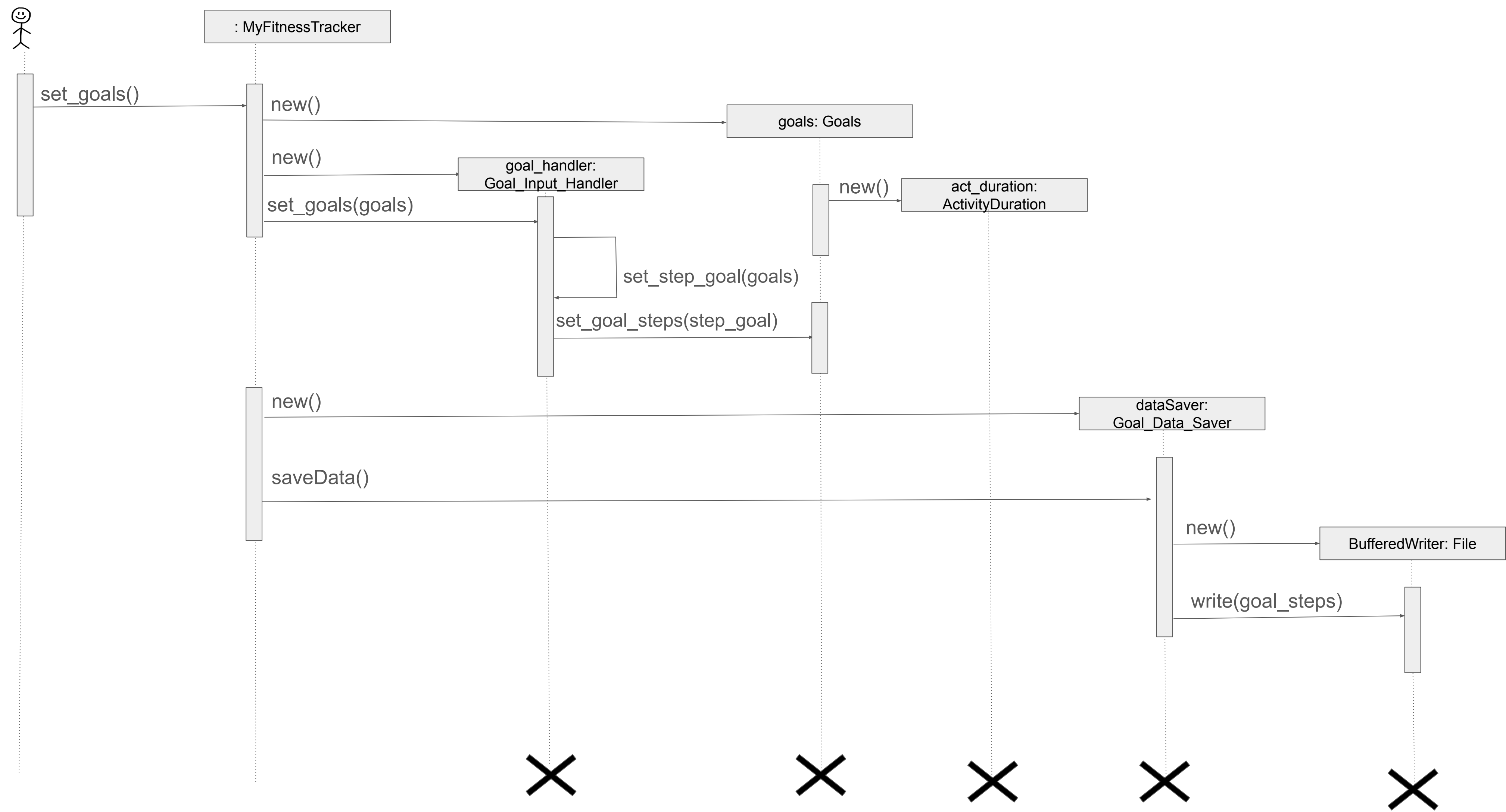
Sequence Diagram: Set Body Weight Goal

MyFitnessTracker User



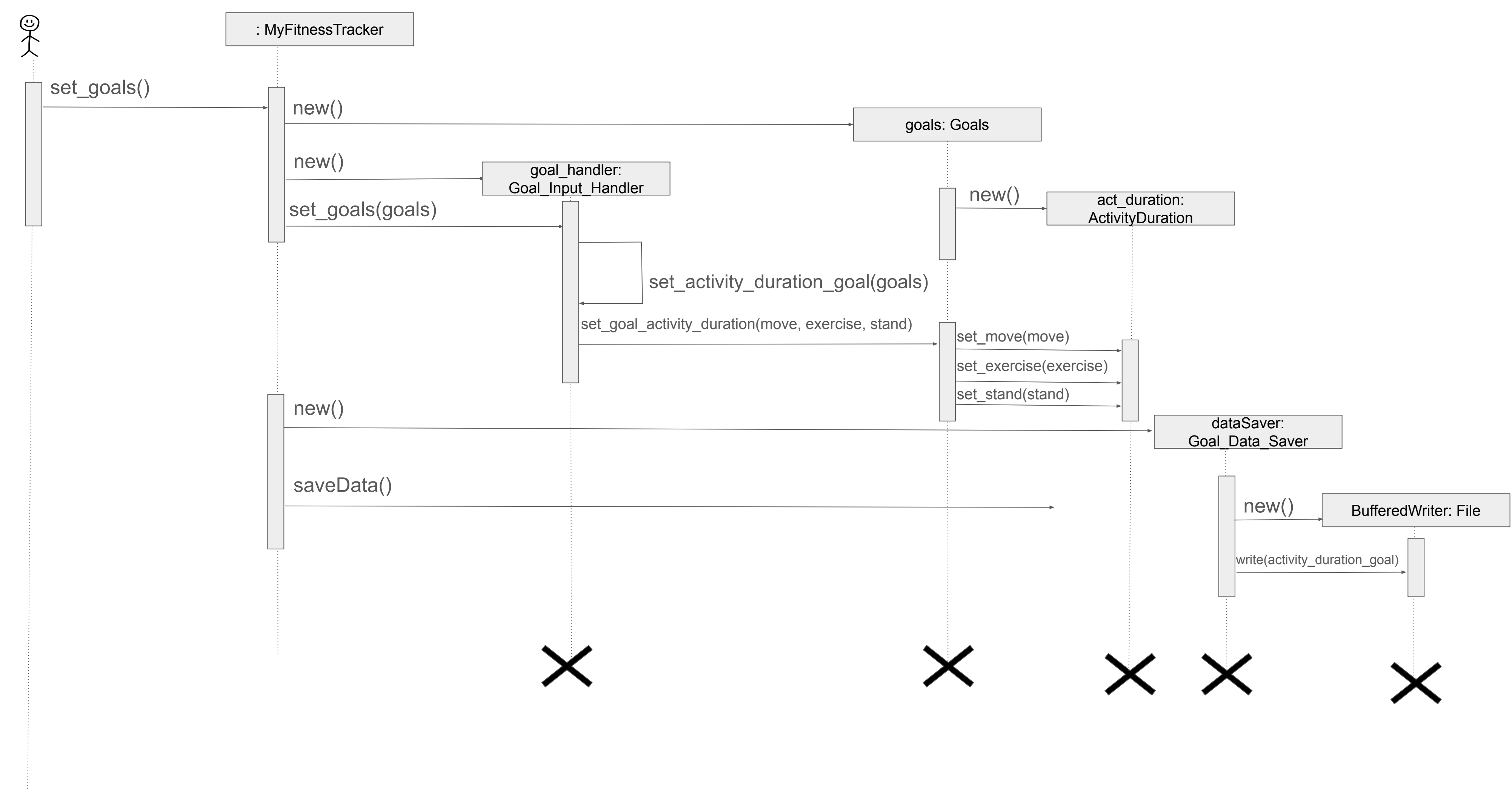
Sequence Diagram: Set Step Goal

MyFitnessTracker User



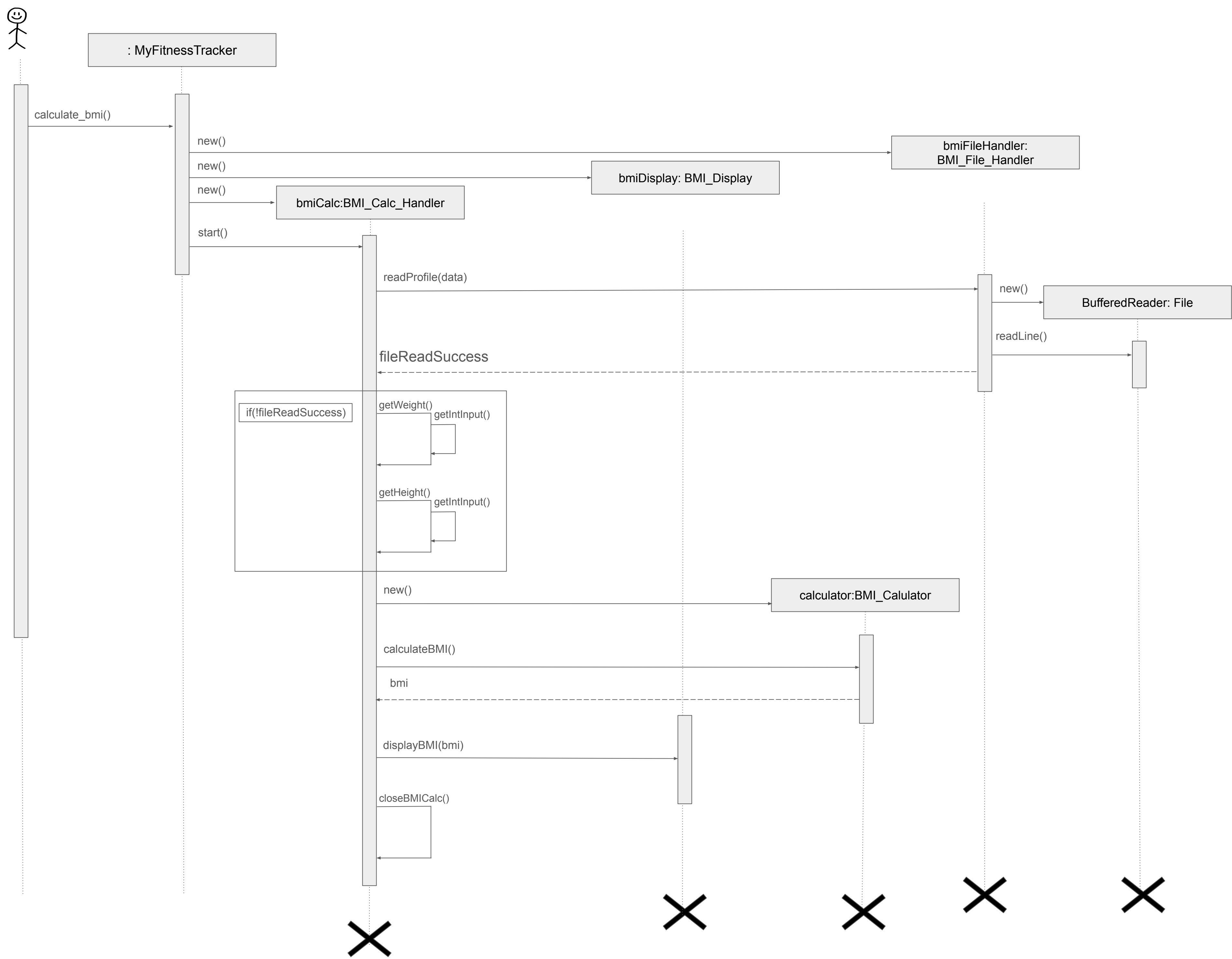
Sequence Diagram: Set Activity Duration Goal

MyFitnessTracker User

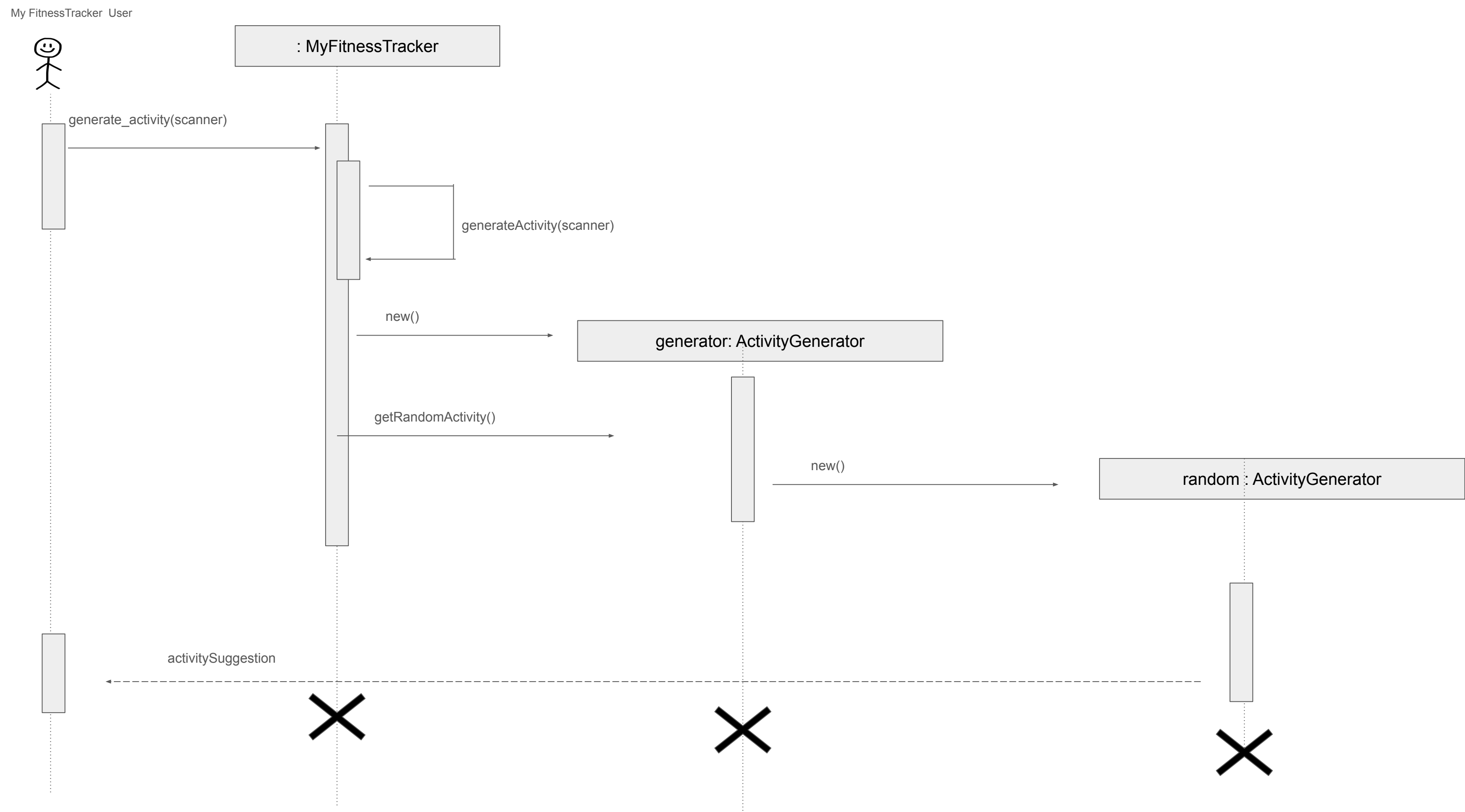


Sequence Diagram: BMI Calculator

MyFitnessTracker User



Sequence Diagram: Activity Generator



https://docs.google.com/drawings/d/19zQjG0CeePRY_CB40WqjA8a-brXLlcEDukyXIZ5riLE/edit?usp=sharing

Zoom in to read + link to original

