User

username: string
password: string
email: string

Register(username: string,
         password: string,
         email: string): boolean
Login(username: string,
      password: string): boolean
ResetPassword(username: string,
              email: string): void
UpdateProfile(profile: Profile):boolean

Profile

firstName: string
lastName: string
age: int
weight: float
height: float
profilePicture: Image
goals: Goal[]
exerciseRoutines: ExerciseRoutine
dietLogs: DietLog
notifications: Notification

setGoal(goal: Goal): void
addExerciseRoutine(routine:
              ExerciseRoutine):void
addDietLog(log: DietLog): void
addNotification(notification:
              Notification):void

Goal

type: string
targetValue: float
currentValue: float

updateCurrentValue
(value: float):void

Exercise Routine

exercises: Exercise[]
dateCreated: Date

addExercise
(exercise: Exercise):void

Exercise

name: string
description: string
type: string

DietLog

date: Date
meal: string
calories: float
macronutrients: Macronutrient[]

addMacronutrient(macro:
         Macronutrient):
         void

Macronutrient

type: string
value: float

Notification

message: string
date: Date