Java Class Files

// Goal class

public class Goal {

private int goal\_Id;

private int user\_Id;

private String type;

private int target;

private String date;

// Constructor

public Goal(int goal\_Id, int user\_Id, String type, int target,String date) {

this.goal\_Id = goal\_Id;

this.user\_Id= user\_Id;

this.type = type;

this.target = target;

this.date=date;

}

// Getters and setters

// Add getters and setters for all attributes

// Sample data

public static Goal[] sampleGoals() {

Goal[] goals = new Goal[2];

goals[0] = new Goal(1, 1, "Weight Loss", 10,”2024-05-02”);

goals[1] = new Goal(2, 2, "Muscle Gain", 5,”2024-05-01”);

return goals;

}

}

// Achievement class

public class Achievement {

private int achievement\_Id;

private int user\_Id;

private String name;

private String description;

// Constructor

public Achievement(int achievement\_Id, int user\_Id, String name, String description) {

this.achievement\_Id = achievement\_Id;

this.user\_Id = user\_Id;

this.name = name;

this.description = description;

}

// Getters and setters

// Add getters and setters for all attributes

// Sample data

public static Achievement[] sampleAchievements() {

Achievement[] achievements = new Achievement[2];

achievements[0] = new Achievement(1, 1, "Marathon Runner", "Completed a full marathon");

achievements[1] = new Achievement(2, 2, "Weightlifting Champion", "Won first place in a weightlifting competition");

return achievements;

}

}

// Device class

public class Device {

private int device\_Id;

private int user\_Id;

private String name;

private String brand;

// Constructor

public Device(int device\_Id, int user\_Id, String name, String brand) {

this.device\_Id = device\_Id;

this.userID = user\_Id;

this.name = name;

this.brand= brand;

}

// Getters and setters

// Add getters and setters for all attributes

// Sample data

public static Device[] sampleDevices() {

Device[] devices = new Device[2];

devices[0] = new Device(1, 1, "Fitbit", "Fitness Tracker");

devices[1] = new Device(2, 2, "Apple Watch", "Smartwatch");

return devices;

}

}

// Challenge class

public class Challenge {

private int challenge\_Id;

private String name;

private String description;

private Date startDate;

private Date endDate;

// Constructor

public Challenge(int challenge\_Id, String name, String description, Date startDate, Date endDate) {

this.challenge\_Id = challenge\_Id;

this.name = name;

this.description = description;

this.startDate = startDate;

this.endDate = endDate;

}

// Getters and setters

// Add getters and setters for all attributes

// Sample data

public static Challenge[] sampleChallenges() {

Challenge[] challenges = new Challenge[2];

challenges[0] = new Challenge(1, "30-Day Fitness Challenge", "Join us for a month of fitness activities", new Date(), new Date());

challenges[1] = new Challenge(2, "Weight Loss Challenge", "Lose weight and win prizes", new Date(), new Date());

return challenges;

    }

}