

Deliverable 3: OO Diagram & Sequence Diagrams

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Notes and Assumptions

We only provided methods and diagrams for core functions. The rest of functionality have been ommited, but will be implemented in the project.

SQL Functions

Create User

Function: `createUser(String firstName, String lastName, int age, double weight)`

```
INSERT INTO User (first_name, last_name, age, weight)
VALUES      (firstName, lastName, age, weight)
```

Create Workout

Function: `createWorkout(String name, String description)`

```
INSERT INTO Workout (name, routine_description)
VALUES      (name, description)
```

Add Nutrition Recording

Function: `addNutritionRecording(NutritionRecording recording)`

```
INSERT INTO Nutrition_Recording (day, month,
                                year, time,
```

```
        calories, protein,  
        carbohydrate, fat)  
VALUES (recording.date.day, recording.date.month,  
        recording.date.year, recording.date.time,  
        recording.calories, recording.protein,  
        recording.carbohydrate, recording.fat)
```

Add Body Measurement Recording

Function: `addBodyMeasurementRecording(BodyMeasurementRecording recording)`

```
INSERT INTO BodyMeasurement_Recording (day, month,  
        year, time,  
        bodyfat, weight)  
VALUES (recording.date.day, recording.date.month,  
        recording.date.year, recording.date.time,  
        recording.bodyFat, recording.weight)
```