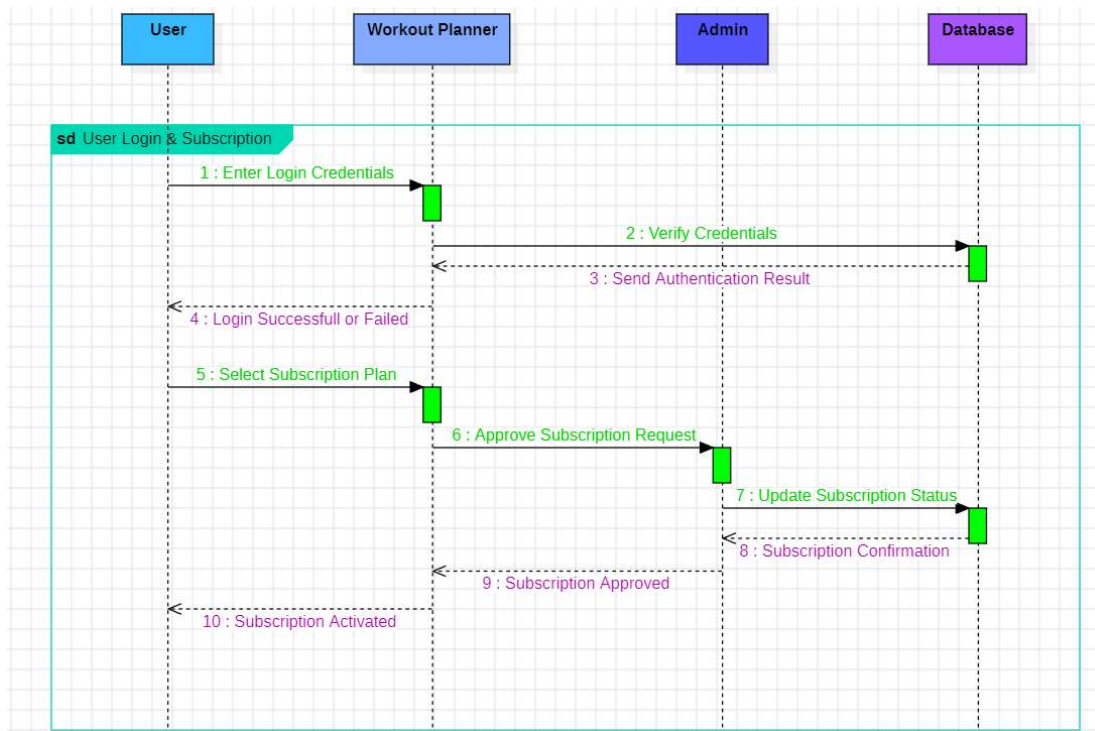# CSI1007 - Software Engineering Principles Laboratory
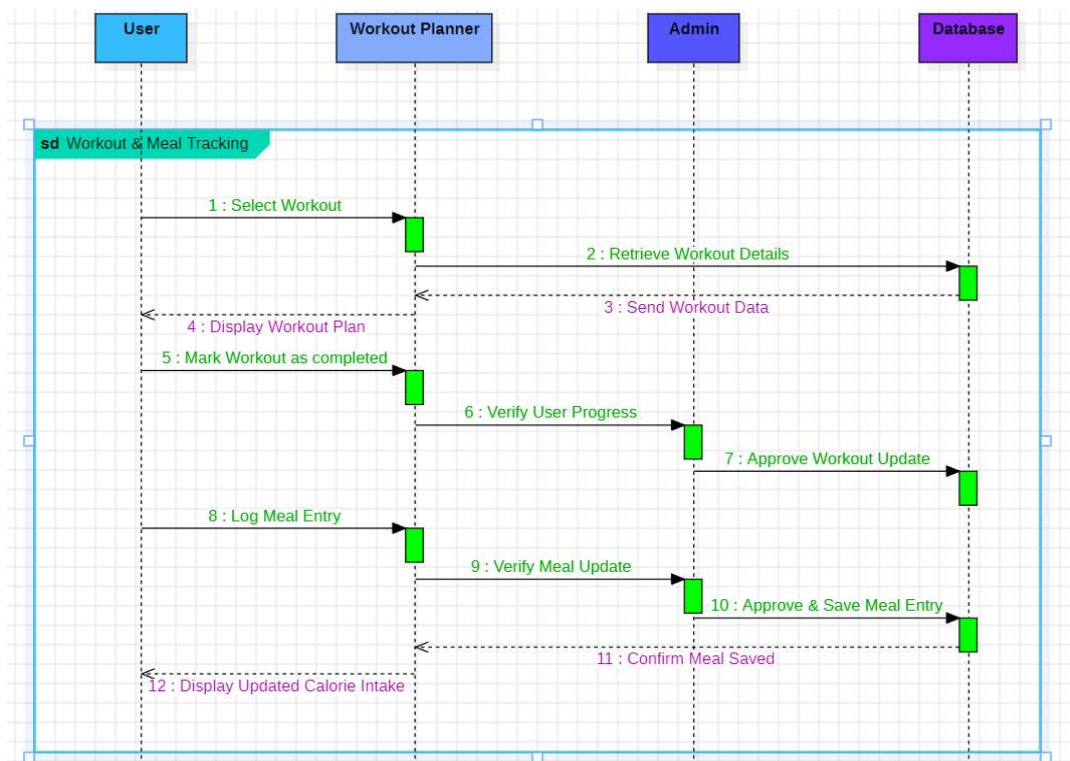
Assessment – 4

Reg.No: **23MIC0032**
Name: **A. Jaiivant**

User Login & Subscription Handling:

sd User Login & Subscription

User — Workout Planner — Admin — Database

1 : Enter Login Credentials
2 : Verify Credentials
3 : Send Authentication Result
4 : Login Successfull or Failed
5 : Select Subscription Plan
6 : Approve Subscription Request
7 : Update Subscription Status
8 : Subscription Confirmation
9 : Subscription Approved
10 : Subscription Activated

Workout & Meal Tracking:

sd Workout & Meal Tracking

User — Workout Planner — Admin — Database

1 : Select Workout
2 : Retrieve Workout Details
3 : Send Workout Data
4 : Display Workout Plan
5 : Mark Workout as completed
6 : Verify User Progress
7 : Approve Workout Update
8 : Log Meal Entry
9 : Verify Meal Update
10 : Approve & Save Meal Entry
11 : Confirm Meal Saved
12 : Display Updated Calorie Intake

Test Case 1: **User Login Verification**

Test Case ID: T1

Test Scenario: Verify login functionality with valid and invalid credentials.

Test Case Description: Ensure the login system allows users to log in with correct credentials and denies access for incorrect inputs.

Test Steps:
1. Open the login page.
2. Enter a username.
3. Enter a password.
4. Click the "Login" button.

Test Data:
Valid Case: Username: user123, Password: Fit@2025
Invalid Case 1: Username: wronguser, Password: Fit@2025
Invalid Case 2: Username: user123, Password: wrongpass

Test Expected Result:
Valid: User is redirected to the dashboard.
Invalid: Error message "Invalid Username or Password" appears.

Actual Result: **As Expected:** System correctly logs in valid users and blocks invalid attempts.

Pass/Fail: **Pass**

Test Case 2: Workout & Meal Tracking

Test Case ID	T2
Test Scenario	Verify that users can successfully log workouts and track meals.
Test Case Description	Ensure that when users mark workouts as completed and log meals, the system updates progress correctly.
Test Steps	1. Open the app dashboard. 2. Select a workout and mark it as "Completed". 3. Go to Meal Tracker and add a meal. 4. Save meal entry. 5. Check progress stats.
Test Data	**Workout:** "Full Body Strength" **Meal:** "Grilled Chicken Salad - 450 Calories"
Test Expected Result	Workout marked as completed. Meal saved in the tracker. Progress statistics updated.
Actual Result	✅ **As Expected:** Workout and meal are logged successfully, progress updates correctly.
Pass/Fail	✅ Pass