

Test ID	Test Scenario	Test Steps	Expected Result	Actual Result	Status (Pass/Fail)	Comments
Authentication Module						
AUTH-02	Forgot Password with OTP	1. Click "Forgot Password." 2. Enter email/phone. 3. Enter OTP.	OTP sent successfully. Password reset allowed.			
AUTH-03	JWT Token Validation	1. Log in. 2. Access protected route with token.	Access granted. Token expires after set time.			
AUTH-04	Invalid OTP Handling	1. Enter incorrect OTP.	Error message: "Invalid OTP."			
Exercise Library Module						
LIB-01	Filter Exercises by Difficulty	1. Select difficulty level (e.g., Beginner).	Only beginner-level exercises displayed.			
LIB-02	Filter Exercises by Equipment	1. Select equipment (e.g., Dumbbells).	Only exercises using dumbbells displayed.			
LIB-03	Calculate Sets/Weight/Reps	1. Enter weight (50 kg), reps (10), sets (3).	Total volume calculated correctly (1500 kg).			
LIB-04	View Exercise Details	1. Click on an exercise.	Muscle groups, instructions, and video displayed.			
Workout Logging Module						
LOG-01	Save Daily Workout Routine	1. Create a routine. 2. Save routine.	Routine saved and accessible in history.			
LOG-02	Track time after workout starts	1. Add exercise with timer (e.g., 30 seconds).	Timer starts/stops correctly. Notification sent at end.			

LOG-03	Track Muscle Groups Worked	1. Complete a workout.	Muscle groups logged and displayed in progress tracker.		
Exercise Suggestions Module					
SUG-01	Recommend Exercises Based on Goals	1. Set goal.	Strength-focused exercises recommended.		
SUG-02	Recommend Exercises Based on Preferences	1. Set preference (e.g., No Machines).	Only bodyweight exercises recommended.		
Custom Workout Module					
CUST-01	Create Custom Workout	1. Add exercises to a new routine. 2. Save routine.	Custom routine saved and accessible.		
CUST-02	Modify Custom Workout	1. Edit an existing routine. 2. Save changes.	Routine updated successfully.		
Personalized Nutrition Planner					
NUT-01	Create Personalized Nutrition Plan	1. Enter user details (age, weight, goals). 2. Generate plan.	Nutrition plan generated based on user inputs.		
NUT-02	Adjust Nutrition Plan Based on Preferences	1. Set dietary preferences (e.g., vegan). 2. Regenerate plan.	Plan updated to exclude non-vegan items.		
NUT-03	Track Daily Calorie Intake	1. Log meals. 2. View calorie summary.	Calorie intake displayed accurately.		
NUT-04	Suggest Recipes Based on Goals	1. Set goal (e.g., weight loss). 2. View recipe suggestions.	Recipes aligned with weight loss goal displayed.		

Meal Reminder System					
MEAL-01	Set Meal Reminders	1. Set reminder for breakfast, lunch, dinner.	Reminders trigger at specified times.		
MEAL-02	Snooze or Dismiss Reminders	1. Snooze reminder. 2. Dismiss reminder.	Reminder snoozed for 5 minutes or dismissed permanently.		
MEAL-03	Customize Reminder Frequency	1. Change reminder frequency (e.g., every 2 hours).	Reminders trigger at new frequency.		
MEAL-04	Handle Missed Reminders	1. Ignore reminder.	Missed reminder logged and displayed in history.		
Real-Time Pose Estimation					
POSE-01	Detect User Pose During Exercise	1. Start exercise with camera enabled.	Pose detected and displayed on screen.		
POSE-02	Provide Feedback on Incorrect Pose	1. Perform exercise incorrectly.	Feedback displayed (e.g., "Adjust your posture").		
POSE-03	Handle Low Light Conditions	1. Perform exercise in low light.	System provides warning: "Low light detected. Improve lighting."		
POSE-04	Track Multiple Users in Frame	1. Two users perform exercises in frame.	Both users' poses detected and tracked separately.		
Feedback on Exercise Form and Posture					
FORM-01	Provide Real-Time Feedback on Form	1. Perform exercise with incorrect form.	Feedback displayed (e.g., "Keep your back straight").		

FORM-02	Track Progress on Form Improvement	1. Perform exercise multiple times.	Progress tracked and displayed (e.g., "Form improved by 20%").			
FORM-03	Handle No User Detected	1. Start exercise without user in frame.	Message displayed: "No user detected. Please step into frame."			
FORM-04	Provide Audio Feedback	1. Perform exercise with incorrect posture.	Audio feedback provided (e.g., "Straighten your arms").			