

## Test Case Planning

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### 1. Use Case 1 – Log Workout Information

Test Case ID	TC01 - Valid bench press entry / weight, rep, set
Test Objective	Verify that a registered user can enter valid workout information and the system will save it and display a confirmation message.
Preconditions	<ul style="list-style-type: none"><li>User is a registered user.</li><li>User is on the “<b>Stregnth Level Log</b>” screen (accessed after login or via Workout page).</li><li>App/server is available.</li></ul>
Test steps	<ol style="list-style-type: none"><li>View the “Strength Level Log” screen showing fields for <i>Weight (lbs)</i>, <i>Reps</i>, and <i>Sets</i>.</li><li>Enter valid values for all fields.</li><li>Click <b>Save</b>.</li></ol>
Input Values	<ul style="list-style-type: none"><li>Excercise: Bench Press</li><li>Weight: 135 lbs</li><li>Reps: 10</li><li>Sets: 3</li></ul>
Expected results	<ul style="list-style-type: none"><li>App verifies inputs against defined business rules.</li><li>App stores the bench press entry.</li><li>App displays confirmation text: “<i>Workout saved.</i>”</li><li>Reopening the screen or viewing workout history shows the saved entry persists.</li></ul>

Test Case ID	TC02 - Missing required field
Test Objective	Verify that the app blocks saving when any required bench-press field is blank and shows the correct error message.
Preconditions	Same as TC01.
Test steps	<ol style="list-style-type: none"><li>View the “Strength Level Log” screen.</li><li>Enter values for Weight and Reps but leave <i>Sets</i> blank.</li><li>Click <b>Save</b>.</li></ol>
Input Values	<ul style="list-style-type: none"><li>Excercise: Deadlift</li><li>Weight: 135 lbs</li><li>Reps: 10</li><li>Sets: [blank]</li></ul>
Expected results	<ul style="list-style-type: none"><li>App displays: “<i>Sets cannot be blank!</i>” (or correct error per field name).</li><li>No data is saved.</li><li>User remains on the form to correct the missing input.</li></ul>

Test Case ID	TC03 - Invalid weight value
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<b>Test Objective</b>	Verify that the app rejects invalid bench press <b>weight</b> values per business rules (weight must be > 0).
<b>Preconditions</b>	Same as TC01.
<b>Test steps</b>	<ol style="list-style-type: none"><li>1. View the "Strength Level Log" screen.</li><li>2. Enter <b>0</b> for Weight and valid values for Reps and Sets.</li><li>3. Click <b>Save</b>.</li></ol>
<b>Input Values</b>	<ul style="list-style-type: none"><li>• Exercise: Squat</li><li>• Weight: 0 lbs</li><li>• Reps: 10</li><li>• Sets: 3</li></ul>
<b>Expected results</b>	<ul style="list-style-type: none"><li>• App displays: <i>"Invalid weight."</i></li><li>• No data is saved.</li><li>• User returns to the form for correction.</li></ul>

<b>Test Case ID</b>	<b>TC04</b> - Invalid reps value
<b>Test Objective</b>	Verify that the app rejects invalid <b>reps</b> values (must be > 0 and typically < 100).
<b>Preconditions</b>	Same as TC01.
<b>Test steps</b>	<ol style="list-style-type: none"><li>1. View the "Strength Level Log" screen.</li><li>2. Enter valid Weight and Sets but set Reps to <b>0</b>.</li><li>3. Click <b>Save</b>.</li></ol>
<b>Input Values</b>	<ul style="list-style-type: none"><li>• Exercise: Overhead Press</li><li>• Weight: 135 lbs</li><li>• Reps: 0</li><li>• Sets: 3</li></ul>
<b>Expected results</b>	<ul style="list-style-type: none"><li>• App displays: <i>"Invalid number of reps."</i></li><li>• No data is saved.</li><li>• User is returned to the same form for correction.</li></ul>