

# Test Case Planning

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## 1. Use Case 3 – Health Goals

<b>Test Case ID</b>	<b>TC01 – Valid health goals saved</b>
<b>Test Objective</b>	<b>Verify that the user can save valid weight, sleep, &amp; steps goals.</b>
<b>Preconditions</b>	<ul style="list-style-type: none"> <li>User is registered &amp; logged in.</li> <li>User has already entered basic info.</li> <li>User is on the Health Goals page.</li> </ul>
<b>Test steps</b>	<ol style="list-style-type: none"> <li>On the Health Goals page, tap Set Goals.</li> <li>Enter a valid weight.</li> <li>Enter valid sleep hours &amp; minutes.</li> <li>Click Save.</li> </ol>
<b>Input Values</b>	<ul style="list-style-type: none"> <li>Weight: 115 lbs</li> <li>Sleep: 7 hrs, 30 mins</li> <li>Steps: 8,000</li> </ul>
<b>Expected results</b>	<ul style="list-style-type: none"> <li>System verifies inputs &amp; finds no errors (BR01, BR02, satisfied).</li> <li>Goals are saved.</li> <li>User sees a confirmation (ie. “Goals updated.”)</li> <li>Updated values appear When the page is reopened.</li> </ul>

<b>Test Case ID</b>	<b>TC02 – Missing required field</b>
<b>Test Objective</b>	<b>Verify the system prevents saving goals when required field</b>
<b>Preconditions</b>	<ul style="list-style-type: none"> <li>User is registered &amp; logged in.</li> <li>User is on the Health Goals page.</li> </ul>
<b>Test steps</b>	<ol style="list-style-type: none"> <li>On the Health Goals page, navigate to Set Goals.</li> <li>Enter a valid weight.</li> <li>Leave the sleep fields empty.</li> <li>Enter a valid steps value.</li> <li>Click Save.</li> </ol>
<b>Input Values</b>	<ul style="list-style-type: none"> <li>Weight: 115 lbs</li> <li>Sleep: [Empty]</li> <li>Steps: 8,000</li> </ul>
<b>Expected results</b>	<ul style="list-style-type: none"> <li>Application detects that sleep is missing.</li> <li>Error message (ie. “Sleep field cannot be blank!”)</li> <li>No data is saved.</li> <li>Use case returns to step 2 (user can re-enter values).</li> </ul>

<b>Test Case ID</b>	<b>TC03 – Invalid weight</b>
<b>Test Objective</b>	<b>Verify that system rejects invalid weight (ie. 0)</b>

<b>Preconditions</b>	<ul style="list-style-type: none"> <li>• User registered &amp; logged in</li> <li>• User on Health Goals page</li> </ul>
<b>Test steps</b>	<ol style="list-style-type: none"> <li>1. On Health Goals page, navigate to Set Goals.</li> <li>2. Enter weight 0.</li> <li>3. Enter valid sleep hours &amp; minutes.</li> <li>4. Enter valid steps.</li> <li>5. Click Save.</li> </ol>
<b>Input Values</b>	<ul style="list-style-type: none"> <li>• Weight: 0 lbs</li> <li>• Sleep: 6 hrs</li> <li>• Steps: 5000</li> </ul>
<b>Expected results</b>	<ul style="list-style-type: none"> <li>• Application verifies input &amp; detects weight <math>\leq 0</math></li> <li>• Error message -&gt; "Invalid weight"</li> <li>• No data saved.</li> <li>• Use case returns to step 2 so user can correct weight.</li> </ul>

<b>Test Case ID</b>	<b>TC04 – Invalid steps goal</b>
<b>Test Objective</b>	<b>Verify system rejects steps input when value is invalid (ie. Negative)</b>
<b>Preconditions</b>	<ul style="list-style-type: none"> <li>• User registered &amp; logged in</li> <li>• User on Health Goals page.</li> </ul>
<b>Test steps</b>	<ol style="list-style-type: none"> <li>1. On Health Goals page, click Set Goals.</li> <li>2. Enter valid weight.</li> <li>3. Enter valid sleep hours &amp; minutes.</li> <li>4. Enter invalid steps (negative number).</li> <li>5. Click Save.</li> </ol>
<b>Input Values</b>	<ul style="list-style-type: none"> <li>• Weight: 115 pounds</li> <li>• Sleep: 7 hours</li> <li>• Steps: -1000</li> </ul>
<b>Expected results</b>	<ul style="list-style-type: none"> <li>• System detects invalid sleep</li> <li>• Application: "Steps invalid"</li> <li>• No data saved</li> <li>• Flow returns Step 2 so user can correct steps data.</li> </ul>