

Test Case Planning

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1. Use Case 3 – Health Goals

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

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

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

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

Test Case ID	TC04 – Invalid sleep
Test Objective	Verify system rejects sleep input when total sleep time is 0 hours
Preconditions	<ul style="list-style-type: none"> • User registered & logged in • User on Health Goals page.
Test steps	<ol style="list-style-type: none"> 1. On Health Goals page, click Set Goals. 2. Enter valid weight. 3. Enter 0 hours for sleep. 4. Enter valid steps. 5. Click Save.
Input Values	<ul style="list-style-type: none"> • Weight: 115 pounds • Sleep: 0 hours • Steps: 6500
Expected results	<ul style="list-style-type: none"> • System detects invalid sleep • Application: "Sleep invalid" • No data saved • Flow returns Step 2 so user can correct sleep data.