

# Test-cases demo

## Test case 1

**ID:** TC-LOGIN-VALID-001

**Title:** Login with valid credentials

**Priority:** High

**Component:** Auth

**Environment:** Web - Chrome

**Preconditions:**

- User account exists - email verified
- User is logged out - clean session

**Test data:**

- Email: *valid\_user@example.com*
- Password: *valid\_password*
- Remember me: on - off

**Steps and expected results:**

1. Navigate to /login
  - Expected: Page loads with HTTP 200 - Login form visible - Email and Password inputs present - Login button enabled - No user menu visible
2. Enter valid email and password
  - Expected: Client-side validation passes - Password input masked - No inline error messages
3. Optionally toggle Remember me to desired state
  - Expected: Checkbox toggles state - State remains selected after small scroll or input blur
4. Click Login
  - Expected: Single POST /auth/login is sent - No credentials in URL - UI shows brief progress indicator
5. Wait for server response
  - Expected: Response 200 with session cookie or token set - No error toast
6. Verify redirect
  - Expected: Redirect to Dashboard or last intended page - URL is correct - Title and H1 match authenticated area
7. Verify authenticated UI
  - Expected: User avatar or menu shown - Login link hidden - Private page accessible in same tab
8. Verify "Remember me" behavior
  - Expected if Remember me on: restart browser - user remains logged in via persistent cookie
  - Expected if Remember me off: restart browser - session cleared - navigating to private page redirects to /login

# Test Case 2

**ID:** TC-PROMO-CODE-PAIRWISE-001

**Title:** Apply promo code in cart - pairwise coverage

**Priority:** Medium

**Component:** Cart - Promotions

**Environment:** Web - Chrome

**Business rules summary:**

- Valid promo applies discount by type
- Min spend may be required
- Expired promo is rejected with clear error

**Pairwise parameters:**

- User status: Guest - Logged in
- Device type: Desktop - Mobile
- Promo type: Percent - Fixed
- Promo status: Valid - Expired
- Min spend state: Met - Not met

Row	User status	Device	Promo type	Promo status	Min spend	Promo code
1	Guest	Desktop	Percent	Valid	Met	PCT10_VALID_MIN0
2	Guest	Mobile	Fixed	Valid	Not met	FIX5_VALID_MIN50
3	Logged in	Desktop	Fixed	Expired	Met	FIX10_EXPIRED_MIN0
4	Logged in	Mobile	Percent	Expired	Not met	PCT15_EXPIRED_MIN30
5	Guest	Desktop	Fixed	Valid	Met	FIX10_VALID_MIN0
6	Logged in	Mobile	Fixed	Valid	Met	FIX5_VALID_MIN0
7	Guest	Mobile	Percent	Expired	Met	PCT20_EXPIRED_MIN0
8	Logged in	Desktop	Percent	Valid	Not met	PCT15_VALID_MIN100

**Steps and expected results:**

1. Set User status per row

- Expected: If Logged in - user header shows account - If Guest - no user menu - both states can access cart

2. Set Device type per row

- Expected: Viewport matches Desktop or Mobile - Cart page layout renders promo input and Apply button without overlap

3. Prepare cart per Min spend state

- Action: Add items to reach target cart total
- Expected if Met: Subtotal equals or exceeds min spend threshold for the code
- Expected if Not met: Subtotal below threshold - totals and taxes display correctly

4. Open Cart page and enter Promo code from the dataset

- Expected: Promo code input visible - Apply button enabled - Current totals displayed
- Expected: Input accepts code - No client error before submission

6. Click Apply

- Expected: Single request to promo validation endpoint is sent - No duplicate submissions - Spinner or applying state shown

7. Observe system response and totals

- Expected if Promo status Valid and Min spend Met:
  - Discount applied once according to Promo type
  - Percent: discount equals configured percent of eligible subtotal with correct rounding
  - Totals - taxes - shipping recalc as per rules - Success message shown
- Expected if Promo status Expired:
  - No discount applied - Clear error message shown like "Promo expired" - Totals unchanged
- Expected if Min spend Not met:
  - No discount applied - Clear error message like "Minimum spend not reached" - Totals unchanged

8. Remove promo (if applied)

- Expected: Totals revert to original values - No residual discount - Remove action available via link or icon

9. Refresh page

- Expected: Cart state persists - Applied or rejected state remains consistent after reload