

80 Ecommerce Website Test Cases

Positive, negative, security, accessibility, API, mobile and performance scenarios. Prepared for BugBug.io.

ID	Module	Test case	Steps	Expected result	Type
TC-01	Account registration, login and authentication	Verify that a new customer can register with valid data	1. Open registration. 2. Enter valid unique email and required fields. 3. Submit.	Account is created and confirmation flow starts.	Positive
TC-02	Account registration, login and authentication	Verify that an existing customer can log in	1. Open login. 2. Enter valid credentials. 3. Submit.	Customer enters the authenticated account area.	Positive
TC-03	Account registration, login and authentication	Verify that registration rejects an existing email address	1. Use an email belonging to an existing account. 2. Complete required fields. 3. Submit.	Duplicate account isn't created and a clear message appears.	Negative
TC-04	Account registration, login and authentication	Verify invalid password handling	1. Enter a valid account email. 2. Enter an incorrect password. 3. Submit.	Login fails without revealing whether other account data is valid.	Negative
TC-05	Account registration, login and authentication	Verify mandatory registration-field validation	1. Leave one required field empty. 2. Submit registration.	Submission is blocked and the missing field is identified.	Negative
TC-06	Account registration, login and authentication	Verify account lockout or throttling after repeated failed logins	1. Enter the wrong password repeatedly up to the configured threshold. 2. Attempt another login.	Configured lockout, throttling or challenge activates without exposing credentials.	Security
TC-07	Account registration, login and authentication	Verify expired password-reset or OTP tokens cannot be reused	1. Request reset/OTP. 2. Allow it to expire or use it once. 3. Attempt reuse.	Expired or consumed token is rejected.	Security
TC-08	Account registration, login and authentication	Verify logout invalidates the active session	1. Log in. 2. Log out. 3. Reopen an authenticated URL using browser history.	Protected account data isn't accessible without reauthentication.	Security
TC-09	Product search, filters and sorting	Verify exact product-name search	1. Search for a known product name. 2. Submit.	Matching product appears in relevant results.	Positive
TC-10	Product search, filters and sorting	Verify category and price filters together	1. Open category. 2. Apply category and price filters.	Every visible result meets both conditions.	Positive
TC-11	Product search, filters and sorting	Verify zero-result search behavior	1. Search for a nonexistent product string.	No broken page appears; a useful zero-results state is shown.	Negative
TC-12	Product search, filters and sorting	Verify invalid filter combinations	1. Apply filters that produce no valid products.	Site returns an empty state without stale or invalid products.	Negative
TC-13	Product search, filters and sorting	Verify sorting after filters change	1. Filter products. 2. Sort price low-to-high. 3. Change filter.	New results remain correctly sorted.	Negative
TC-14	Product search, filters and sorting	Verify search input is safely handled as text	1. Enter special characters and HTML-like strings. 2. Search.	Input doesn't execute as markup or script and results page remains stable.	Security
TC-15	Product search, filters and sorting	Verify sensitive internal fields aren't exposed through search responses	1. Inspect search request/response. 2. Search several SKUs.	Response contains only fields required by the client.	Security
TC-16	Product search, filters and sorting	Verify sort order is numerically correct	1. Sort products by price ascending. 2. Inspect first and last several products.	Products are ordered by actual numeric price, not string order.	Positive
TC-17	Product detail page	Verify product information matches selected SKU	1. Open product. 2. Compare name, SKU, price and selected variant.	Displayed details belong to the selected product/variant.	Positive
TC-18	Product detail page	Verify changing a variant updates price and availability	1. Select another size/color.	SKU-specific price, image and stock update correctly.	Positive
TC-19	Product detail page	Verify unavailable variant cannot be purchased	1. Select out-of-stock variant. 2. Try Add to Cart.	Purchase action is disabled or valid unavailable-state handling appears.	Negative

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TC-20	Product detail page	Verify invalid product URL returns appropriate state	1. Open nonexistent product ID/slug.	Valid 404 or product-unavailable state appears.	Negative
TC-21	Product detail page	Verify malformed quantity isn't accepted	1. Manipulate quantity input to zero, negative or unsupported value.	Invalid quantity can't enter the cart.	Negative
TC-22	Product detail page	Verify hidden product identifiers don't bypass availability rules	1. Attempt to request an unavailable/disabled SKU through normal client requests.	Server rejects unauthorized/unavailable item state.	Security
TC-23	Product detail page	Verify product page doesn't expose sensitive backend data	1. Inspect HTML and network responses.	Credentials, private supplier data and internal-only fields aren't exposed.	Security
TC-24	Shopping cart	Verify product can be added to cart	1. Open in-stock product. 2. Add to cart.	Correct SKU, price and quantity appear in cart.	Positive
TC-25	Shopping cart	Verify cart quantity recalculates totals	1. Add product. 2. Change quantity from 1 to 3.	Line total and cart total update correctly.	Positive
TC-26	Shopping cart	Verify cart rejects quantity above stock	1. Add product. 2. Enter quantity exceeding available inventory.	Quantity is capped or rejected with clear feedback.	Negative
TC-27	Shopping cart	Verify removing the final cart item	1. Add one product. 2. Remove it.	Empty-cart state appears and totals reset.	Negative
TC-28	Shopping cart	Verify expired coupon	1. Add eligible product. 2. Apply expired promo code.	Discount isn't applied and expiry message is clear.	Negative
TC-29	Shopping cart	Verify cart price can't be modified on the client	1. Change visible/request price data in browser tools. 2. Continue.	Server calculates authoritative price and ignores manipulated client values.	Security
TC-30	Shopping cart	Verify another customer's cart can't be accessed by changing an identifier	1. Authenticate as Customer A. 2. Attempt normal request using Customer B cart ID.	Access is denied and no other customer's items are exposed.	Security
TC-31	Shopping cart	Verify unsupported coupon stacking	1. Apply two non-stackable coupons.	Site follows configured coupon rule and calculates one valid discount.	Negative
TC-32	Checkout	Verify guest checkout where supported	1. Add product. 2. Continue without account. 3. Complete required details.	Guest reaches payment/order stage successfully.	Positive
TC-33	Checkout	Verify registered-user checkout retains account details	1. Log in. 2. Add product. 3. Checkout.	Valid saved customer information appears correctly.	Positive
TC-34	Checkout	Verify checkout blocks missing required address fields	1. Leave required shipping field empty. 2. Continue.	User can't proceed and field error is displayed.	Negative
TC-35	Checkout	Verify unsupported country or postcode	1. Enter destination outside configured delivery area.	Checkout explains that delivery isn't available and doesn't create invalid order.	Negative
TC-36	Checkout	Verify cart changes made during checkout	1. Start checkout. 2. Modify cart in another tab. 3. Continue checkout.	Checkout refreshes or safely reconciles changed totals/items.	Negative
TC-37	Checkout	Verify checkout price fields can't be tampered with client-side	1. Modify request values for subtotal/discount. 2. Submit checkout.	Backend recomputes authoritative totals.	Security
TC-38	Checkout	Verify another customer's saved address can't be referenced	1. Change address identifier in request. 2. Continue.	Checkout rejects address not owned by current customer.	Security
TC-39	Checkout	Verify double submission doesn't create duplicate orders	1. Submit final checkout action twice rapidly.	Only one intended order is created or duplicate processing is safely handled.	Negative
TC-40	Payments	Verify successful card payment	1. Add product. 2. Checkout. 3. Enter valid sandbox card.	Payment succeeds and one confirmed order is created.	Positive
TC-41	Payments	Verify PayPal/wallet success flow where supported	1. Choose wallet. 2. Authorize sandbox payment. 3. Return to store.	Correct order is confirmed once.	Positive
TC-42	Payments	Verify declined card payment	1. Use gateway's declined-card test data. 2. Submit payment.	Order isn't marked paid and customer can recover without losing cart unnecessarily.	Negative
TC-43	Payments	Verify invalid CVV	1. Enter otherwise valid test card with intentionally invalid CVV test condition. 2. Submit.	Payment is rejected according to gateway behavior and no paid order is created.	Negative

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TC-44	Payments	Verify expired card	1. Enter gateway's expired-card test data. 2. Submit.	Customer receives appropriate failure state and can retry.	Negative
TC-45	Payments	Verify card number remains masked after entry	1. Enter card details. 2. Review confirmation/account screens and logs available to test user.	Full card number isn't displayed or stored in inappropriate application output.	Security
TC-46	Payments	Verify payment callback/webhook can't mark unpaid order paid without valid provider state	1. Process controlled invalid/failed sandbox event. 2. Inspect order state.	Order status follows verified gateway result.	Security
TC-47	Payments	Verify retry after temporary gateway error	1. Trigger configured gateway failure. 2. Retry with valid test payment.	One successful payment and one order result, without duplicate charge/order.	Negative
TC-48	Payments	Verify €0/\$0 order handling after full discount	1. Apply 100% valid promo. 2. Proceed through checkout.	Store follows defined zero-total flow without sending invalid charge request.	Positive
TC-49	Shipping and delivery	Verify available shipping methods for a valid address	1. Enter supported destination. 2. Continue.	Correct shipping methods and prices appear.	Positive
TC-50	Shipping and delivery	Verify free-shipping threshold	1. Build cart just below threshold. 2. Repeat at threshold.	Free shipping appears only when configured condition is met.	Positive
TC-51	Shipping and delivery	Verify invalid postcode	1. Enter malformed postcode. 2. Request rates.	Checkout blocks or requests correction rather than returning invalid rate.	Negative
TC-52	Shipping and delivery	Verify address outside delivery region	1. Enter unsupported location.	No unavailable shipping option can be selected.	Negative
TC-53	Shipping and delivery	Verify shipping-rate service failure	1. Simulate configured sandbox/integration failure.	Checkout shows controlled fallback/error rather than zero or stale shipping cost.	Negative
TC-54	Shipping and delivery	Verify shipping method can't be replaced with unauthorized ID	1. Select valid method. 2. Manipulate shipping-method identifier in request.	Backend validates method against the order destination and rules.	Security
TC-55	Orders and post-purchase flows	Verify order confirmation after successful purchase	1. Complete payment. 2. Open confirmation.	Order number, purchased items and correct totals appear.	Positive
TC-56	Orders and post-purchase flows	Verify order appears in authenticated order history	1. Complete order. 2. Open account history.	New order appears once with correct status.	Positive
TC-57	Orders and post-purchase flows	Verify cancelled payment doesn't create a completed order	1. Begin wallet/card payment. 2. Cancel before authorization.	No completed/paid order appears.	Negative
TC-58	Orders and post-purchase flows	Verify refresh doesn't duplicate order	1. Complete purchase. 2. Refresh confirmation or resend request normally.	Duplicate order isn't created.	Negative
TC-59	Orders and post-purchase flows	Verify confirmation email handles missing mail service gracefully	1. Complete controlled order with mail service failure.	Order remains valid; communication failure is handled separately.	Negative
TC-60	Orders and post-purchase flows	Verify Customer A cannot view Customer B order	1. Log in as A. 2. Request B's order URL/ID.	Access is denied and order details aren't exposed.	Security
TC-61	Responsive and cross-browser test cases	Verify mobile product-to-cart flow	1. Open supported mobile viewport/device. 2. Find product. 3. Add to cart.	Controls remain usable and correct item enters cart.	Positive
TC-62	Responsive and cross-browser test cases	Verify mobile checkout	1. Use supported smartphone viewport/device. 2. Complete checkout.	No clipped fields, hidden actions or horizontal overflow blocks purchase.	Positive
TC-63	Responsive and cross-browser test cases	Verify navigation at narrow viewport	1. Reduce viewport through supported breakpoint. 2. Open menu.	Navigation remains usable without overlapping content.	Negative
TC-64	Responsive and cross-browser test cases	Verify validation messages don't cover form controls on mobile	1. Trigger multiple validation errors on narrow screen.	User can still see, reach and correct affected fields.	Negative
TC-65	Responsive and cross-browser test cases	Verify checkout in each supported browser	1. Run same checkout case on defined Chrome/Edge/Firefox/Safari matrix.	Supported browsers produce equivalent business result.	Negative/Compatibility
TC-66	Responsive and cross-browser test cases	Verify sensitive payment/account information isn't cached into public shared-browser screens	1. Complete controlled session. 2. Log out. 3. Navigate with browser history.	Protected account/payment data isn't exposed after logout.	Security

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TC-67	API and integration	Verify product API returns current price and inventory	1. Request known SKU. 2. Compare with authoritative test data.	API returns correct current product state.	Positive
TC-68	API and integration	Verify successful order reaches fulfillment integration	1. Complete sandbox order. 2. Inspect integration result.	Correct order payload is sent once.	Positive
TC-69	API and integration	Verify invalid product ID	1. Request nonexistent product.	API returns defined error rather than unrelated/stale product.	Negative
TC-70	API and integration	Verify missing required checkout payload field	1. Send test checkout request without mandatory field.	API rejects request with controlled validation response.	Negative
TC-71	API and integration	Verify upstream integration timeout	1. Trigger sandbox/mock timeout.	Ecommerce system handles timeout without corrupting order state.	Negative
TC-72	API and integration	Verify unauthorized API request	1. Request protected account/order endpoint without valid authorization.	Request is denied and protected data isn't returned.	Security
TC-73	API and integration	Verify customer can't request another customer's order via API	1. Authenticate as A. 2. Request B's known test order ID.	Authorization prevents cross-account data access.	Security
TC-74	Accessibility, performance and security	Verify checkout can be completed using keyboard navigation	1. Use keyboard only. 2. Move through checkout. 3. Submit test order.	Focus order is logical and all required controls are operable.	Accessibility
TC-75	Accessibility, performance and security	Verify product images and functional icons expose appropriate accessible text	1. Inspect representative PDP/cart/checkout UI with accessibility tooling.	Meaningful images/controls expose appropriate accessible names or alternatives.	Accessibility
TC-76	Accessibility, performance and security	Verify product page performance against agreed target	1. Measure representative product page. 2. Compare with internal budget and Core Web Vitals.	Example target: internal load target <2 s where agreed; LCP ≤2.5 s at the 75th percentile for a "good" Core Web Vitals result.	Performance
TC-77	Accessibility, performance and security	Verify checkout under 1,000 concurrent test users	1. Run controlled load profile up to the agreed 1,000-user peak. 2. Monitor errors/latency.	Checkout stays inside project's defined latency/error budget.	Performance
TC-78	Accessibility, performance and security	Verify order pipeline with 10,000+ controlled test orders	1. Generate or replay 10,000+ non-production orders in performance environment. 2. Monitor queue/order processing.	No lost/duplicated orders and agreed throughput is sustained.	Performance
TC-79	Accessibility, performance and security	Verify sensitive customer data isn't present in application logs available to normal operators/users	1. Execute checkout. 2. Inspect approved test logs/output.	Passwords, full payment credentials and unnecessary personal data aren't logged.	Security
TC-80	Accessibility, performance and security	Verify unauthorized administration endpoints reject customer sessions	1. Authenticate as normal customer. 2. Request protected admin endpoint through normal test client.	Access is denied and administrative data/actions remain unavailable.	Security