ID	Test Scenario	Preconditions	Steps	Expected Result	Actual Result	Status	Comments	Screenshot
TC001	Sign up - valid credentials	User not registered	1. Open Signup modal/page 2. Enter unique username and valid password 3. Click "Sign up"	Account created successfully; success message displayed; user can login with new credentials.	Account created successfully; success message displayed; user can login with new credentials.	Pass	Tested on Chrome 115, Windows 10. Username: TestUser80 Password: 123321Mk!	N/A
TC002	Sign up - password rules (boundary & variations)	User not registered	1. Open Signup 2. Enter username 3. Enter passwords: - Min -1 (7 chars) → should fail - Min (8 chars) → should pass - Min +1 (9 chars) → should pass - Max -1 (19 chars) → should pass - Max (20 chars) → should pass - Max +1 (21 chars) → should fail 4. Click "Sign up"	Passwords outside 8–20 chars rejected with validation messages; valid lengths accepted	Successfully signed up with 7 characters (below min); validation messages not shown *Note: sign up with 7 chars test executed*	Fail BUG-001	Tested on Chrome 115, Windows 10. Username: TestUser81 Password: 1234567 *Note: Boundary tests not fully executed for portfolio*	Screenshots/UI/BUG-001_TC_005_Successful_sign_up_below_min_chars.PNG
TC003	Sign up - password character rules	User not registered	1. Open Signup 2. Enter username 3. Enter passwords violating rules: - Missing uppercase - Missing lowercase - Missing digit - Missing special character - Containing spaces 4. Click "Sign up"	Signup rejected; validation messages shown for each violated rule	Successfully signed up with missing required characters; validation messages not shown	Fail BUG-002	Tested on Chrome 115, Windows 10. Username: TestUser81 Password: 1234567 *Note: Partial execution; portfolio practice*	Screenshots/UI/BUG-002_TC_003_Successful_sign_up_missing_required_characters.PNG
TC004	Sign up - existing username	User registered with valid credentials	1. Open Signup 2. Enter username that already exists 3. Enter password 4. Click "Sign up"	Error message shown: "User already exists" or application-specific message; signup rejected	Error message shown: "This user already exists"; signup rejected	Pass	Tested on Chrome 115, Windows 10. Username: TestUser80 Password: 123321Mk!	N/A
TC005	Sign up - empty username	User not registered	1. Open Signup 2. Leave username empty 3. Enter password 4. Click "Sign up"	Error message shown: "Please fill out Username and Password"; signup rejected	Error message shown: "Please fill out Username and Password"; signup rejected	Pass	Tested on Chrome 115, Windows 10. Username: Password: 123321Mk!	N/A
TC006	Sign up - empty password	User not registered	1. Open Signup 2. Enter username 3. Leave password empty 4. Click "Sign up"	Error message shown: "Please fill out Username and Password"; signup rejected	Error message shown: "Please fill out Username and Password"; signup rejected	Pass	Tested on Chrome 115, Windows 10. Username: TestUser80 Password:	N/A
TC007	Sign up - SQL Injection - like or invalid characters	User not registered	1. Enter username containing test SQL-like chars (e.g., or_1_eq_1_test2) 2. Click "Sign up"	App sanitizes input; rejects invalid username; no server errors or DB injection	Successfully signed up with username containing special SQL Injection - like chars	Fail BUG-003	Tested on Chrome 115, Windows 10 Username: or_1_eq_1_test2 Password: 12345678	Screenshots/UI/BUG-003_TC_007_Successful_sign_up_SQL_Injection.PNG

TC008	Login - valid credentials	User registered with valid credentials	1. Go to Login page 2. Enter valid username 3. Enter valid password 4. Click "Login"	User successfully logged in and redirected to dashboard/home	User successfully logged in and redirected to dashboard/home	Pass	Tested on Chrome 115, Windows 10. Username: TestUser80 Password: 123321Mk!	N/A
TC009	Login - invalid credentials	User registered with valid credentials	1. Go to Login page 2. Enter invalid username or invalid password 3. Click "Login"	Error message shown: "User doesn't exist" or "Invalid password" Log in rejected.	1. When entered invalid username, error message shown: "User doesn't exist". Log in rejected. 2. When entered invalid password, error message shown: "Invalid password". Log in rejected.	Pass	Tested on Chrome 115, Windows 10. 1. Invalid username test: Username: TestUser8000 Password: 123321Mk! 2. Invalid password test: Username: TestUser80 Password: 123321Mk!+	N/A
TC010	Login - empty username or password	User registered with valid credentials	1. Go to Login page 2. Leave username or password empty 3. Click "Login"	Error message shown: "Please fill out Username and Password" Log in rejected.	When username or password left empty, error message shown: "Please fill out Username and Password" Log in rejected.	Pass	Tested on Chrome 115, Windows 10. Username: TestUser80 Password: 123321Mk!	N/A
TC011	Login - password boundary rules	User registered with valid credentials; password rules enforced	1. Go to Login page 2. Enter password variations: - Min -1 (7 chars) → fail - Min (8 chars) → pass - Min +1 (9 chars) → pass - Max -1 (19 chars) → pass - Max (20 chars) → pass - Max +1 (21 chars) → fail 3. Click "Login"	System rejects passwords outside boundaries; login allowed within allowed range	Not tested. *Please, see comments.*	Not executed	*Tests not executed because signup validations already failed; any invalid credentials would not pass login, so testing is redundant. Will be tested after sign-up bugs (BUG-001, BUG-002) are fixed and retested successfully.*	N/A
TC012	Login - password character rules	User registered with valid credentials; password rules enforced	1. Go to Login page 2. Enter passwords violating rules: - Missing uppercase - Missing lowercase - Missing digit - Missing special character - Containing spaces 3. Click "Login"	Validation messages shown for each violated rule; login rejected	Not tested. *Please, see comments.*	Not executed	*Tests not executed because signup validations already failed; any invalid credentials would not pass login, so testing is redundant. Will be tested after sign-up bugs (BUG-001, BUG-002) are fixed and retested successfully.*	N/A
TC013	Login - Case Sensitivity	User registered with valid credentials	1. Open Login page 2. Enter username and password using different case combinations (e.g., all lowercase, all uppercase, mixed case) 3. Click "Login"	System treats credentials as case-sensitive: – Login succeeds only when username and password exactly match stored case – Login fails for incorrect case combinations with proper error message	Not tested. *Please, see comments.*	Not executed	*Not tested for portfolio (out of portfolio scope)*	N/A

TC014	Login - Multiple Failed Attempts	User registered with valid credentials	1. Open Login page 2. Enter valid username and invalid password 3. Repeat login attempt 5 times 4. Observe system response	After several failed attempts (5): – Account is temporarily locked or CAPTCHA appears – Proper message shown: "Too many failed attempts"	Not tested. *Please, see comments.*	Not executed	*Not tested for portfolio (out of portfolio scope)*	N/A
TC015	Cart - add single product	User logged in	1. Navigate to product page 2. Select a product 3. Click "Add to cart"	Product appears in cart with correct name, price, quantity and total	Product appeared in cart with correct name, price, quantity and totals as expected	Pass	Tested on Chrome 115, Windows 10. Username: TestUser80 Password: 123321Mk!	N/A
TC016	Cart - add multiple products	User logged in	1. Navigate to product page 2. Select and add to cart multiple products	All products appear in cart with correct name, price, quantity and total	All products appeared in cart with correct name, price, quantity and total as expected	Pass	Tested on Chrome 115, Windows 10. Username: TestUser80 Password: 123321Mk!	N/A
TC017	Cart - add product not logged in	User not logged in	1. Navigate to product page 2. Select a product 3. Click "Add to cart"	App handles gracefully: either allows guest cart or prompts login/register; behavior matches spec	Product was added to cart without guest cart or login/register prompt. Actual behavior deviates from expected.	Fail BUG-004	Tested on Chrome 115, Windows 10 *Note: No guest cart or login/register prompt appeared; potential usability/security issue*	Screenshots/UI/BUG-004_TC_017_add_product_not_logged_in.PNG
TC018	Cart - remove product	User logged in, product in cart	1. Open cart 2. Select a product 3. Click "Delete"	Product removed from cart; cart updated; total recalculated correctly	Product was removed from cart; cart was updated; total recalculated correctly as expected *Please see point for improvement in Comments*	Pass	Tested on Chrome 115, Windows 10. Username: TestUser80 Password: 123321Mk! *Note: No confirmation or prompt message displayed before item removal. This behavior might confuse users or lead to accidental deletions. Not reported as a defect for this project due to lack of specification, but noted as a potential usability improvement.*	N/A
TC019	Cart - update quantity	User logged in, product in cart	1. Open cart 2. Change quantity: - Increment / decrement - Boundary values (min / max) 3. Observe line item price and total	Quantity changes reflected correctly; totals update; errors shown for invalid values	Feature not available – no quantity selector or update option present *Please, see comments.*	Fail BUG-005	Tested on Chrome 115, Windows 10. Username: TestUser80 Password: 123321Mk! *Note: Quantity selection feature not implemented; user can adjust quantity by adding/removing items. Usability impacted*	Screenshots/UI/BUG-005_TC_019_change_quantity_in_cart_missing.PNG
TC020	Checkout - valid flow	User logged in, cart not empty	1. Open cart 2. Click "Place Order" 3. Fill Name, Country, City, Credit Card Number, Month, Year 4. Click "Purchase"	Order confirmation shown; cart cleared; purchase ID shown	Order confirmation was shown; cart was cleared; purchase ID was shown as expected	Pass	Tested on Chrome 115, Windows 10. Username: TestUser80 Password: 123321Mk!	N/A

TC021	Checkout - missing required fields	User logged in, cart not empty	1. Open checkout 2. Leave one of the fields empty: Name, Country, City, Credit Card Number, Month or Year 3. Click "Purchase"	Error message shown: "Please fill out Name and Credit Card"; order not placed	Error message was shown: "Please fill out Name and Credit Card"; order was not placed as expected	Pass	Tested on Chrome 115, Windows 10. Username: TestUser80 Password: 123321Mk!	N/A
TC022	Checkout - invalid card / month / year	User logged in, cart not empty	1. Enter invalid card (non-numeric, wrong length) 2. Enter month/year out of bounds 3. Click "Purchase"	Validation messages shown; order not placed	Validation messages were not shown; order was placed; system allowed invalid card details *Please, see comments*	Fail	Tested on Chrome 115, Windows 10. Username: TestUser80 Password: 123321Mk! *Note: Actual test failed as system allowed invalid card details. Not creating a separate bug for portfolio purposes. Noted for awareness; would be reported in real project.*	N/A
TC023	Checkout - total amount verification	User logged in, cart not empty	1. Add products with known prices 2. Open cart and note total 3. Complete purchase 4. Verify confirmation total	Total equals sum of item prices; no discrepancy	Total equals sum of item prices; no discrepancy as expected	Pass	Tested on Chrome 115, Windows 10. Username: TestUser80 Password: 123321Mk!	N/A
TC024	Checkout - empty cart	User logged in, cart empty	1. Open cart 2. Attempt to click "Place Order"	"Place Order" disabled or message: "Cart is empty"; order cannot be placed	Error message was not shown; order was placed; system allowed checkout with empty cart *Please, see comments.*	Fail	Tested on Chrome 115, Windows 10. Username: TestUser80 Password: 123321Mk! *Note: Actual test failed; system allowed checkout with empty cart. Not creating a separate bug for portfolio purposes. Noted as potential usability issue.*	N/A
TC025	Checkout - order confirmation clears cart	After successful purchase	1. Complete valid purchase 2. Open cart	Cart is empty after order; recent order confirmation visible	Cart was empty after order; recent order confirmation was visible as expected	Pass	Tested on Chrome 115, Windows 10. Username: TestUser80 Password: 123321Mk!	N/A

Additional Test Cases (Login Functionality). These test cases were created after initial execution to extend Login coverage.

TC026	Login - Case Sensitivity	User account already registered with valid credentials	1. Open Login page 2. Enter username and password using different case combinations (all lowercase, all uppercase, mixed case) 3. Click "Login"	System treats credentials as case-sensitive: login succeeds only when username and password exactly match stored case; login fails for incorrect case combinations with proper error message	System treated credentials as case-sensitive: login succeeded only when username and password exactly matched stored case; login failed for incorrect case combinations with proper error message as expected	Pass	Tested on Chrome 115, Windows 10. Username: testuser80/TestUser80/TESTUSER80 Password: 123321Mk!/123321mk!/123321MK! *Note: Tested different combinations of username and password*	N/A
TC027	Login - Multiple Failed Attempts / CAPTCHA	User account already registered with valid credentials	1. Open Login page 2. Enter valid username and invalid password repeatedly (e.g., 5 times) 3. Observe system response	After multiple failed attempts: account temporarily locked or CAPTCHA appears; proper warning message displayed	After multiple failed attempts: account temporarily was not locked or no CAPTCHA appeared; proper warning message was not displayed *Please, see comments*	Fail	Test failed; system allowed unlimited failed login attempts and no CAPTCHA was displayed. Not creating separate bug for portfolio purposes. Noted for awareness; would be reported in a real project (security impact).	N/A
TC028	Session / Cookie Handling	User logged in	1. Log in with valid credentials 2. Close browser tab without logging out 3. Reopen site 4. Observe session persistence and cookie handling	User session expires or persists according to system rules; cookies are handled securely; no unauthorized access allowed	Session did not expire as expected; cookies were not handled securely; unauthorized access was allowed Please, see comments	Fail	Test failed; session did not expire after logout / cookies not cleared. Not creating separate bug for portfolio purposes. Noted for awareness; would be reported in a real project (potential security risk).	N/A