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| **Test Case ID** | **Test Case Name** | **Description** | **Precondition** | **Test Steps** | **Test Data** | **Expected Result** | **Actual Result** | **Status** |
| TC01 | User Login - Valid | Verify successful login with correct credentials | User exists in database | 1. Open login.php 2. Enter valid username & password 3. Click "Login" button | Username: hari  Password: 123 | Redirects to index.php with success message | As expected | Pass |
| TC02 | User Login - Invalid | Verify login failure with incorrect credentials | User exists in database | 1. Open login.php 2. Enter invalid credentials 3. Click "Login" | Username: wrong Password: 1234 | Redirect to login.php with error message | As expected | Pass |
| TC03 | View Product Catalog | Ensure all products load from DB | Products available in DB | 1. Login 2. View index.php | — | Product cards should be displayed with name, price, image | As expected | Pass |
| TC04 | Add Product to Cart | Add an item to the cart from catalog | Logged in user, product exists | 1. On index.php 2. Enter quantity 3. Click "Add to Cart" | Product: ID=1, Quantity=2 | Redirects to index.php, cart session updated | As expected | Pass |
| TC05 | View Cart | Verify cart view with product details | Products added to cart | 1. Click “View Cart” button | — | Cart displays item name, quantity, price, and total | As expected | Pass |
| TC06 | Update Quantity (+/-) | Verify updating quantity using + and - buttons | Item exists in cart | 1. Click + or - on any item in cart | Click '+' on quantity input | Total updates dynamically without page reload | As expected | Pass |
| TC07 | Remove Item from Cart | Ensure item is removed from cart when clicking "Remove" button | Item exists in cart | 1. Click “Remove” next to any product in cart | Click Remove | Product disappears from cart, total updates | As expected | Pass |
| TC08 | Empty Cart Message | Verify empty cart message appears when cart is cleared | Cart is empty | 1. Open cart.php | — | “Your cart is empty.” message shown | As expected. | Pass |
| TC09 | Session Handling | Ensure session stores cart correctly between requests | Logged in user | 1. Add item to cart 2. Navigate to other pages and return | Product: Any | Cart content remains until logout or session expires | As expected. But when item removed from cart and redirected back to index.php, cart details is stale unless refreshed. | Work in progress |
| TC10 | SQL Injection Prevention | Verify login form is secure from SQL injection | Site up | 1. In username field: admin' OR '1'='1 2. Enter any password | Injection attempt | Login should fail (input sanitized via prepared statements) | As expected | Pass |