

Live Backend Stock System Test Plan

This also includes some of the new features added in this version

Test Case ID	Component	Description	Steps to Reproduce	Expected Result	Actual Result	Status	Notes
1	db.php	Test DB connection with valid credentials	Load page or run connection script	Successful connection	Connected successfully	Pass	Stable connection
2	db.php	Test DB connection with invalid credentials	Change credentials and reload	Error message shown	"Connection failed" displayed	Pass	Error handling correct
3	dynamicstock.sql	Validate schema creation	Run SQL file	Tables created without errors	Tables created successfully	Pass	Schema correct
4	dynamicstock.sql	Insert sample stock data	Insert sample rows	Data inserted correctly	Data inserted correctly	Pass	Verified via SELECT

5	order_handling.php	Submit valid order	Submit form with valid product + quantity	Order processed and stock updated	Stock updated correctly	Pass	Logic correct
6	order_handling.php	Invalid product ID	Submit form with non-existent product ID	Error message shown	"Product not found"	Pass	Validation working
7	order_handling.php	Insufficient stock	Submit order exceeding available stock	Warning shown, no stock update	Warning shown, stock unchanged	Pass	Prevents negative stock
8	index.php / style.css	Page loads correctly	Open index.php	Layout loads with correct styling	Spacing slightly off	Fail	CSS margin issue
9	index.php	Form submission feedback	Submit form	Success or error message displayed	Success message displayed	Pass	Works as expected
10	style.css	Style consistency	Review UI elements	Spacing, fonts, and buttons appear consistent	Buttons inconsistent on mobile	Fail	Needs responsive fix

11	db.php	Test DB timeout handling	Simulate slow DB or disconnect mid-query	Graceful timeout message	Page froze before error	Fail	Add timeout handling
12	order_handling.php	SQL injection attempt	Enter ' OR 1=1 -- in product field	Input rejected	Input rejected	Pass	Prepared statements working
13	index.php	Missing required fields	Submit form with empty fields	Validation error shown	Error shown	Pass	Bootstrap validation
14	dynamicstock.sql	Duplicate product insertion	Insert product with same primary key	Duplicate prevented	Duplicate blocked	Pass	PK constraint correct
15	order_handling.php	Negative quantity input	Submit order with quantity = -5	Error shown	Error shown	Pass	Validation correct
16	index.php	Broken CSS link	Temporarily rename CSS file	Page loads unstyled with console error	Page unstyled, console 404	Pass	Confirms dependency
17	db.php	Wrong DB host	Change host to invalid IP	Connection error	Error displayed	Pass	Error handling correct

18	style.css	Button hover state	Hover over buttons	Hover effect triggers correctly	Hover missing on one button	Fail	Missing class
19	order_handling.php	Large quantity order	Submit order with extremely high quantity	Error or limit warning	Error shown	Pass	Prevents unrealistic orders
20	index.php	Starter Page	Ensure the default page is index.php	Page loads first	Page loads first	Pass	Works intended even with the new php files
21	db.php	New insert function works	Call new insert function with sample data	Data inserted successfully	Insert successful	Pass	Insert function added
22	db.php	New function to get productID from product name	Call function with known product name	Correct productID returned	Correct ID returned	Pass	Function working
23	dynamicstock.sql	Renamed status to order_status	Run queries referencing new column	No SQL syntax conflicts	No conflicts	Pass	Prevents reserved word issues

24	db.php	Basic DB connection + data passing (no hashing)	Submit form and inspect DB	Data passes through correctly	Data passed correctly	Pass	Hashing not required for receipts
25	dynamicstock.sql	Visibility boolean works	Set product visibility to 0	Product hidden from frontend but still in DB	Hidden correctly	Pass	BIT(1) working
26	db.php	grabProducts respects visibility flag	Call grabProducts	Only visible products returned	Only visible returned	Pass	Logic updated
27	navbar	Navbar fixed and responsive	Load site on desktop + mobile	Navbar displays correctly	Navbar fixed	Pass	Issue resolved
28	style.css	Forced CSS refresh using versioning (9999)	Reload browser	Updated CSS loads	CSS updated	Pass	Cache-busting successful
29	order_handling.php	Prepared statements prevent SQL injection	Submit malicious input	Query blocked	Blocked	Pass	Security implemented

30	index.php / order flow	Thank-you page after purchase	Complete purchase	Redirect to thank-you page	Redirect + notification bar shown	Pass	No more white screen
31	index.php	Thank-you notification bar displays correctly	Trigger purchase	Notification bar visible	Notification bar visible	Pass	UX improved
