

Risk-Based Test Case Priority Matrix v1.0

What RBPM Combines	1. Potential Risks from RTM (Requirement Traceability Matrix) 2. Risk Impact & Likelihood analysis 3. Business Criticality (Must-Have vs Should-Have) 4. Security & E-commerce Vulnerabilities from OWASP Top 10: https://owasp.org/Top10/2025/							
Priority Score Formula	Priority Score = (Impact Score) * (Likelihood Score) * MosCow Type Risk Factors: Impact (1-5), Likelihood (1-5) MosCow Type: Must-have (1.20), Should-have (1.0) <i>The priority score is used as a guideline for relative test execution prioritization.</i>							
Risk Levels	Critical (P0)	High (P1)	Medium (P2)	Low (P3)				
	<ul style="list-style-type: none"> Risk Score: 24 - 30 Impact: Immediate business loss Frequency: High Fix urgency: ASAP 	<ul style="list-style-type: none"> Risk Score: 14 - 23.9 Impact: Significant business disruption Frequency: Medium Fix urgency: High 	<ul style="list-style-type: none"> Risk Score: 7 - 13.9 Impact: Moderate business impact Frequency: Medium-Low Fix urgency: Standard 	<ul style="list-style-type: none"> Risk Score: 1 - 6.9 Impact: Low business impact Frequency: Low Fix urgency: Low 				
Risk Identification & Priority	REQ ID	Potential Risks	MoSCoW	MosCow Weight	Impact	Likelihood	Risk Score	Priority
	REQ-014	Authentication failure	Must-Have	1.20	5	4	24	P0
	REQ-019	Payment processing failure	Must-Have	1.20	5	4	24	P0
	REQ-022	Authentication failure	Must-Have	1.20	5	4	24	P0
	REQ-021	Missing order records	Must-Have	1.20	5	3	18	P1
	REQ-023	Unauthorized access	Must-Have	1.20	5	3	18	P1
	REQ-001	Page load or routing failure	Must-Have	1.20	4	3	14.4	P1
	REQ-004	Incorrect filtering logic	Must-Have	1.20	4	3	14.4	P1
	REQ-008	Missing or incorrect product data	Must-Have	1.20	4	3	14.4	P1
	REQ-009	Data inconsistency	Must-Have	1.20	4	3	14.4	P1
	REQ-024	Invalid data creation	Must-Have	1.20	4	3	14.4	P1
	REQ-025	Data inconsistency	Must-Have	1.20	4	3	14.4	P1
	REQ-010	Session persistence failure	Should-Have	1.00	4	3	12	P2
	REQ-020	Missing confirmation	Should-Have	1.00	4	3	12	P2
	REQ-026	Residual data exposure	Must-Have	1.20	5	2	12	P2
	REQ-002	Broken navigation link	Must-Have	1.20	3	3	10.8	P2
	REQ-007	Broken product link	Must-Have	1.20	3	3	10.8	P2
	REQ-016	Broken access flow	Must-Have	1.20	4	2	9.6	P2
	REQ-017	Data persistence failure	Must-Have	1.20	4	2	9.6	P2

Test Case ID	Test Case Details & Status							
	Requirement ID	Description	Priority	Impact Score	Test Cases	Test Status	Defects Found	Last Update
	REQ-015	Improper error handling	Should-Have	1.00	3	3	9	P2
	REQ-003	Incorrect access restriction	Should-Have	1.00	4	2	8	P2
	REQ-027	Incorrect role assignment	Should-Have	1.00	4	2	8	P2
	REQ-005	Filter state not reset	Must-Have	1.20	3	2	7.2	P2
	REQ-006	User confusion due to empty results	Must-Have	1.20	2	3	7.2	P2
	REQ-011	Session handling issues	Must-Have	1.20	3	2	7.2	P2
	REQ-012	Homepage rendering issues	Must-Have	1.20	3	2	7.2	P2
	REQ-013	Broken redirect	Must-Have	1.20	3	2	7.2	P2
	REQ-018	Session sync issues	Should-Have	1.00	3	2	6	P3

Risk Assessment & Mitigation Strategy	Security Risks	Functional Risks	Usability Risks
	Mitigation: API testing for access control and data validation, with targeted exploratory testing.	Mitigation: System testing for key user flows and end-to-end scenarios	Mitigation: Exploratory testing to identify usability gaps and edge cases.

Test Execution Priority	Test Cases	Test Status
	P0 REQ-014, REQ-019, REQ-022	UAT
	P1 REQ-001, REQ-004, REQ-008, REQ-009, REQ-021, REQ-023, REQ-024, REQ-025	UAT is conducted at the user story level to validate business acceptance criteria.
	P2 REQ-002, REQ-003, REQ-005, REQ-006, REQ-007, REQ-010, REQ-011, REQ-012, REQ-013, REQ-015, REQ-016, REQ-017, REQ-020, REQ-026, REQ-027	
	P3 REQ-018	