Types of Performance Testing

Type of Testing	Purpose	What It Tests	Example Scenario	Key Focus Area
Load Testing	Check how the system	Performance under normal	Testing a website with	Response time,
	behaves under	conditions.	1,000 users, as expected	throughput, resource
	expected user loads.		during peak hours.	usage.
Stress Testing	Check how the system	Breaking point and system	Pushing 10,000 users on a	Stability and error
	behaves under extreme	recovery.	site designed for 1,000.	handling.
	(overload) conditions.			
Endurance Testing	Check how the system	Memory leaks,	Running a system with	Stability over time.
	behaves under	performance degradation.	1,000 users for 72 hours.	
	sustained load over a			·
	long period.			
Scalability Testing	Check how the system	Capacity limits and ability	Gradually increasing users	Efficiency and
	performs when the load	to scale.	from 100 to 10,000.	resource
	is increased gradually.			optimization.
Reliability Testing	Ensure the system	Uptime and fault tolerance.	Checking if a service stays	Consistency and
	performs consistently		up after frequent restarts or	error recovery.
	under various	!	network drops.	
	conditions.			•