



Summary of Testing types						
	Testing Name	Testing Object / Target	Responsible people / Team	Environment to perform	Perform manually? Automatically ?	Any more info?
1	Static Testing	Documents SRS, SDS Test Plan	SRS -> Business Team , The client SDS -> Designers, the client, PM Test plan -> QA team, business team		Manually	Docs are tested / checked by Review, walk through, and inspection meetings.
2	Dynamic Testing	Code / Software	Developers testers -> QA, Performance team, Client, end user	1. Dev environment 2. QA/Test environment 3. Staging/pre-production env 4. Production Env	Both	Dynamic testing has 4 levels
3	Unit Testing	Developers' Code	Developers	Dev environment	Both	developers test / execute each unit of the code
4	Integration Testing	Code test the combination of several units	Developers QA testers	Dev environment	Both	Developers most of the time several units together to check if data transfers are working well between modules/functionalities
5	System Testing	Software - each function, security, performance Code	QA Performance team	QA environment	Both	System test divided to : Functional & Non-functional
6	Functional Testing	Tester's code - Functionality of the app All 3 layers	QA / SDET	QA environment	Both	under the functional testing, there are many testing types
7	Non-Functional Testing	performance of the app Security levels	Performance testers Security engineers	QA environment	Both	under the Non-functional testing, there are many testing types like Volume test, stress test, installation ..
8	FrontEnd / UI Testing	testing the software each function	Front-end tester Full-stack tester	QA environment	Both	manually - Test case doc , manually go to the app , provide some screen shot & videos Automation : Java , Selenium , Maven, Junit, Cucumber
9	Database Testing	Database	BackEnd tester Full-stack tester	QA environment	Both	Manual : SQL language , to know how to use any DB IDE to perform manual testing Automation: Java, JDBC tool, maven, junit, testNg, cucumber
10	API Testing	web service	BackEnd tester Full-stack tester	QA environment	Both	manual : Postman IDE to perform manual API , automation can be done as well Automation: Java, RestAssured tool, junit, maven, cucumber ..
11	Smoke Testing	software's major functionalities	Smoke test is scheduled on Jenkins to run Automatically QA/SDET	QA environment it can be different	Automatically manually tested if required or found bug	Smoke test is perform to evaluate if the app is stable or not by testing the major functionalities' scenarios
12	Regression Testing	software's all the functions one last time before app goes to stg env	QA / SDET FrontEnd testers BackEnd tester Full-stack tester	QA environment	Both	Regression can be run as a big or small , and run any time like everyday , once a week, once a month, once every 3-4 months
13	Parallel Testing	software functionalities	QA	QA environment	Automatically	in regression, by testing the scenarios parallel, QA team can reduce the time duration scenarios run in different VM, browsers and OS
14	Cross-browser Testing	software functionalities	QA	QA environment Stg Env	Both	
15	White / Glass box Testing	developer's code	Developers	dev env	Both	Developers know the software internal logic / structure
16	Black Box Testing	Software	manual testers the Client	QA environment Staging environment	manually	testers or the client does not know the internal structure of how the app / how any functions is working or not working.
17	Gray Box Testing	Software	SDET	QA environment Staging environment	Both - especially automation	SDET knows partial knowledge of how an app works
18	User Acceptance Testing UAT	Software	The client / end users Testers - UAT team	Staging Environment	Both	UAT has 2 types : Alpha, Beta last testing to be performed before release App will deployed from Stg to Production env
19	Alpha Testing	Software	Testers / UAT team	Staging Environment	Both	A QA /SDET can work in UAT team because they use the same language, and testing tools to perform UAT.
20	Beta Testing	Software	The client / end users	Staging Environment	Manually	The Client / stakeholders test the app if the app is acceptable or not