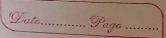
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Unit-5

Test management and Automation

Test planning A test plan is a detailed document which describes software testing areas and affortres It strategy, objective schedule, required resources (human ighware, hardware) test estimation and test deliverables Test plan is base of rojeware testing, very crucial activity. - Test plan is template for conducting software testing activities an defined prouse monitored & controlled by testing manager. - Tatlead 60x Test plan in prepared by - Marker test Plan - multilevel of testing Phase feet Plan - feet that address only one phase for non functional tutil Testing type specific test plan like receivity test, load test th How to write test flan -1) Analyze the Product - Reharching about product, client sta 2) Design test strategy-dweloped by manager overall strategy, cost 3) Refine test objective - degining goals & achievement of test Define test criteria - Rule on which test procedure of judgement ferouser planning - detailed rummary of all sequered resources Plan test Environment - Setup of roftware & hardwar for testing 2) Schedule estimation - atimation of effor for each type of activity 8) Determine test deliverables - list of all documents, tool, component that how to be developed & mountained of tuting effort. Type - Before teiting - plan, delign During testing - Data, error, soupts - After testing - Recent, Report, Notes.

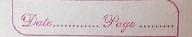


Test management - Brown of managing the test activities in order to enture high quality testing of application. The method consisting of organizing, controlling, ensuing traceability and visibility of teeting. Ruponsibility - work in collaboration with test analyst & select appropriate templates. - Provide all jacility to keep track of project - aire clear undustanding. Two main parts-Execution: - Testing activity Hanning - Risk analysis Test Estimation cases Text report X Eval. -> Test execution - Process of executing code and comparing expected and actual results - Select test cass - Execut test cass - Report bug - Revolve 1stue - adjust anignment Test suporting - organised rummarey of testing objective, activities and results. Test automation - Test automation is the practise of running feet automatically , managing test case and utilizing results to improve rojewave quality. which test case to execute - High risk cases - fut case that are repeatedly executed - test that we difficult to purjorm

- time consuming test cases.

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Process - Test tool selection -	finding tool
Define 100ps of autom	ation - planning all activities.
- Planning, durgn x du	velopment-planning all activities
- test execution - Exce	whing all fut cases
- Mountainana - nu	simple are added for new junes.
, Andrews	
La Ogine 100 per of automation -	It is the area of your application
under test which will be au	tomated.
following feature determine 100	pe zberg men sum
- Jeaner important for bu	
- runario have large amount a	
- Common junctionality	a structure state of the state
- tehnical fearibility	101 exemplon - Proun
- complexity of text case.	" experted and betiges"
- Ability to use same cases.	Not tut con
	בי באינעון לעוי נפא
- Benegits - taster	typer - Smoke telting
- Relrable	Unit testing
- ensure consistency - lave time & cost	Integration testing
- Improve accusedy	Regression testing.
- showard efficiency	Menon bies without is
- Re-mable 1 cuipt	was lateproident and administration
Some tool - Selenium, subject	7 Claused de la
E POSTO CHOS SHOES THE PROPERTY	ramboa feet, Kobiton
Requirement for fut tool	W grongme of returned 1999
- tool is an artifact that	assisst in but related activities
necessary requirement are	- Maria Carrol
40 Mg 14 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Mills and Book last
1) No hard coding in hit with	- Data should not be embedded
	in code.



Test case expandability - test cases used should be expandable Reven of code for different testing Automotic sutup & cleanup 5) Independent tut case - case should not depend on each other Selective execution of care - tool should support this from lægge test call 7) Random execution - tool should randomly 8) Parallel excustion of care - too should allow 11 execution 9) Independent of language - independent of programming lang. Test tool selection - In order to rucceed in automation proper tool selection is important because i) all tool are not well supported for different problem 2) tool are expensive 3) Not all tut tool sun on all platform 4) Tut tool require strong training. Crikua for selecting meeting requirement technology expectations training Management aspects. Object Oviented testing Teeting class is fundamentally different problem that testing function. A function how defined input & output but class do not have Issues in testing class -Additional method are sequented for testing only objects can be taked inheritance open various issues. control flow in characterised by menagr. paring among object.

- lack of acquential control flow within class



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29-21	the kchange for lating-
-1	fault hand testing identify possible fault and to remove
	their this testing is done in the state of t
2)	class tuling based on method testing - Each method of day
	programme as 11 taked: - whose is no thrown a surprise of
3)	Kandom teiting - develop random test requires and
	and then teeting bot - northwar mobile
4)	Partition testing - categorise the input & output of a
fre	category, minimise casu.
7)	Scenario-based testing. Simulating real world renamo
	Test tool selection - an every to succeed in automation
	- emporé drottop is important breams -
Des	Idang the plat of lastragger was for each up to
	1) tool and expensive.
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