

CHH. SHAHU COLLEGE OF ENGINEERING

Kanchanwadi, Paithan Road, Aurangabad.

Date:

Punctical NO: 09

Alm: To perform various testing using the testing tool unit testing, integration testing.

Theory :-

Testing: 5/w Testing is the process of evaluating and verifying that a software product or applicat does what is supposed to do.

- The benefits of testing:-

Reducing development

Improving performance

* Why testing is important:-

Software testing makes sure that the software. user-priendly! That makes 9+ capable of being used by the Customers 9+ 95 Intended for

To gain customer confidence.

check software adaptability

identily errors

avoid extra costs.

To accepterate Software development

To avoid susks

To optimise business.



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	• Types of Testing:
1	1209t koting o) Integration testing
3)	interpretation of inline bou testing
1)	Black box testing 6) white on tenting. Smoke kating 8) Sanity testing.
1	customer a comment of the contractive of the
0	* Unit testing -
-	- 110 0 1000100 1000100
	units of software 1.e group gracedures & operating
	puocedures are tested to determine whether they are
	sustable for use or not.
	In SDLC or V-model Unit testing is the 1st level
	In SDLC or V-model Unit realing. Al toting done before integration testing.
	* Types of Unit testing.
	1) Manual testing 2) Automated testing.
	1
	* Unit testing Techniques -
	4) Black Box Testing
	a) white Box Testing.
	3) Gray Box testing.



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	* Advantages of unit testing-
	Allows developers to learn what functionally 95 puoveded & understanding of the unet API.
1	Allows developers to dearn what april
	purished & understanding of the
1	Allows the programmer to refine code & make sure the module works properly.
2)	Allows the programmer to stepline and
	the module works properly
	in Dis Apple of World Hoting -
	* Disadvantages of unit testing-
1	a 10 to 10 to 100 the unit test case
1)	The process 95 time-consuming for written the unit test case
1	1 1 man de de la managera 18100
× /	It cannot cover the non-junctional scoring parameters
	It cannot cover the non-functional testing parameters 19ke ocalability, performance of system etc.
	TT an anthall Top mad-pr
	* Integration teating:
-	It 95 the process of feating between two stores the
	units or modules. It jocuses on determining me
11)	It 95 the process of testing between two s/w units or modules. It focuses on determining the correctness of the intrace.
-	The purpose of integration testing is to expose faults
	no the Interaction between integrated units.
	The purpose of integration testing is to expose faults in the integration between integrated units. Once all the modules have been unit tested, integration
	testing 95 performed.



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	* Integration testing approaches-
4) 2(3)	Big-Bang Integration Teoting. Bottom-Up Integration Testing. Top-Down Integrat Testing. Mixed Integrat Testing.
+)	* Types of integration testing.
te	Incremental Pokgrat Potting Theremental Pokgrat Potting Feotling Polegrat Rotling Polegrat Rotling
	Top-Dow I.T Bottom-up I.T
1	* Advantages of Integrat resting. It helps In identifying integrat issues but the modules.
2	At emproves test coverage of provide of additional level of eveliability.



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	* Disadvantages of Integrat Testing-
1	440 0:11
-/	It is difficult to docate faults.
	Since Integral" teating can begin only after "all" modules are dessigned, the teating team will have less time to enecute tests.
	ente designed, the testing team will have less time to
	whenle kop.
	(on al., a)
	Conclusion:
\parallel	
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