Chard Chaughule 9594 TE COMPS B SE - Assignment - I



and environment on which software is working also changes. so every organization is ranked by that organization

Implementing and managing large size of software programmer requires a specific method modularings the tasks so that use of software can't have the software quality

inflementing complex restrance systems with

without any standard method or management, it is difficult to address defect in the product and court as early as possible. Software engineeing provide this functionality

requires more cost in terms of time to develop and efforts taken by people as compare to the process of developing inch software to provide that functionally

Software engineering provides a way in which software system can be able to seale as meded in future

Daterfall model: Sequential and linear approach Each phase must be completed byone moving to the next Clear and shuchard, suitable for projects with well-different suits mente, minimal changes and stable scope Limited flix; bility for changes, olifficult to adopt to evolving requirements, potential for late stage every discording. V-model (Validation and Veryteation model): Parallel development and testing approach lack development place is followed by a errosponding testing phase stong emphasis on validation and verification day documentation ereduces risk by identifying imus why limited adaptibility to changing requirements potential for immediation, reduce risk by identifying usual early Incremental model - Similar to distration models, but the software is built in increment, each delivering specific functionality. Early diviny of functional module, reduced time to market allows for better integration testing.

Requires areful planning to define in remembs possible integration Jerative Model: Similar to agile, but with more showhard of defined phases Each iteration may include a subject of softwares Allows for iterations refined fratures and early fledback, suitable for peoples with evolving requirements.

Require clear planning and coordination between iteration, so lendral for some creen potential for scope creep.

83. The CMM models application in software development has sometimes been problematic applying multiple models that are not integrated within and across an organization could be costly in training appeaisals & improvement activities The capability maturity model Integration (CMMI) iproject was formed to sort out the problem of using multiple modely for software development processes, they the CMMI model has superseded the CMM model though the CMM continues to be a general theor tical procus capability model used in the public domain CMMI framwork has thru group. 1. CHMI for development (CHMI-DEV)). CHMI for service (CMMI-SVC) 3. CHM 1 for aquisation (CMM 1- ACB) Evolutionary Brown Hodel Oh. Crespective Process Model 1) Stages consits of growing >) Developed to bring order increments of an operational and structure to the software product with evolution software development process equirements. 2) Ingrowement is required in 2) 4+ is less popular ... s) It is more popular. as well as RAD model. incremental model and for examples of perspective process poodel.

85) Smaller Junctional increments allowing cortain module to be developed and delivered independently while ensuring integration RAD model: when there is a meed to quickly produce - working prototype to gather was fullback and make refinements before proceeding with full development Waterfall model when requirements are stable and change are minimal making it possible to plan and execute the project in a linear sequence of phoses

Agile model: Cacrum) when flexibility and adaptibility are countried and the project can be alevided in to smaller Increments with frequent iteration, allowing for combinuous fed back and changes. Water fact model is the first approach und in eighware development sprovers It also called as darrical life eyele model or linear requested model. Kn waterfall model any phase of · Agite coftware dislopment describes an approach to rothware development unclear which requirements and solutions remote through the collaboration effort of self organizing.

It advocates adaptive planning subletowary development early delivery and continual improvement and it incourage Stopid and flivible responen so change I the term agile was popularized in the context by the manifeto for agir cophean development.

81	D Waterfall:
	Developement speed:
•	Waterfall is a linear of sequential methodology where
	each phase must be complated before moving on the
	next This can lead to longe duelogmen agely.
•	Metrics: Time taken for each phase c requirements duign,
	development, testing, deployment)
	Adaptibility to change:
•	Water Jall is less adaptable to change in requirements du to
•	metrics inumber of change requests impact conalyses time to delay caused by change requests
	delay caused by change requests
•	
•	Mekics customes judback at the many to project for
	deployment support require muits.
	Agile (Scrum & Kanban)
	Development Speed:
•	Agile methodology imphasis increments to the
	for quicker deliving of working greated and sperint or eyels, him mule
• .	Agile methodology imphasise incremental development allowing for quicker delivery of working feature. Mentics: No of uses stories completed per sprint or eyele, time, rub Mentics: No of uses stories completed per sprint or eyele, time, rub
	Adaphbility to change .
•	Agile me no money as territion of flexibility
_	Adaptibility to change: Agibe metto dologies are highly adaptible to changing requiremble due to regular iterations of flexibility meters: No of change incorporated year sprint/eyoh., I'm
•	taken to suppond to change request.
	Customer satisfaction:
	Agin involve continuous customer feedback and collaborations
•	Agin involve continuous customer perbach nous, Juguny of combines
	Teacher's Signature:

93.	1 -					
4	features	Waterfall	Incementa	1 Problyging	Spiral.	
		Model	modil	model	Model	
	Requirement	mell	not well.	not well	well	
	Requirement Specification	undustoned	understood	understood	undus bood	
	• 0 .	. 9.50				
	Under Standing	well .	not all	, not will	well	
	Requirements	unders bood	undustood	undustood	understood	
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	the	only at	intermediate	high .	ligh	
•	Involvement'	beginning				
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	Riguind !	J	, ,	WW WM	m	
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	control	yes	yu	no	414	
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