TUTORIAL - 6

	10101111
	model.
0.1.>	Compare the waterfall model of software process with the incremental
A. 1.>	
	1 Waterfall model / Classical / Traditional model / Linear-sequential like you
	- All phases involve in this model completed one by one in
	linear tashion
	- In this model, we get software after completion of all
	coding phase.
	- Used for small projects & exist only one cycle in worthfull
1-21	Requirement Analysis
	the state of the s
	System Design
	Implementation
	an panental (4)
	Testing
	Deploymen?
	maintenance
	Fig 1.1 Wakrfall Model
	(2) Increment model testing
	- multiple development cycles Increment Development Toplementate
	c cycles divided into small modules)
	- Each release of module testing
	adds function to previous Requirements Increment Design & Implementals
	rdease.
	- process is continued, with
	complete system is achieved Increment Development Implement

	Materfall model	Incremental model
10001	(Tital)	21.60m 233.004
0	Need for Detailed Documentation in	1 Is necessary but not too much.
0	waterfall model is hecessary.	as almost series it
8	Early stage planning is	
0	necessary	is not necessary.
3	High amount of Risk	3 Low amount of Risk
a		a short waiting time for running
w den	coftware	Softwar.
3	Can't Handle large projects	(5) can't handle large projects
0	Flexibility to change in waterfall	© Easy to change (flexible)
, kai	model is difficult.	to word off a
3	Cost of waterfall model = LOW	D cost of incremental is also Low.
8	testing is done in waterfall model	1 Testing is done in incremental
	after the completion of coding	model after every iteration
	phase.	of the phase.
9	Returning to pravious stage/phase	9 It is possible.
	is not possible	
(0)	darge team is required	(10) large from is not required
11)	Overlapping of phases is not	1 overlapping of phases is
0	possible	possible.
<u> </u>	only one cycle of waterfall	(12) Multiple development cycles
G		take place in incremental model.
(3)	The customer is involved only at	(3) In incremental model, austomer
14	beginning of development.	involvement is intermediate.
(3)	dinear framework type is	type is used.
(5)	Reusehille is the least	(15) Reusebluty is possible to
	Reusability is the least	some extend
	1-300	

2) Discuse the Agile method and how is it different from traditional process models Agile is general approach used for software development, it relice & heavily on teamwork, collaboration, timeboxing tasks and the flexibility to respond to change as quickly as possible Agile manifests has four essential values toole More focus on Individuals and Interactions than process and 1 Working software is more important than comprehensive docu (3) Customer collaboration is more vital than negotiation entation 1 The process should respond to change rather than blindly 1 Flexible 2 Early and predictable delivery Prioritization Benefits of (5) More AGILE 3 Predictable costs transparency and schedules 3 Improved Quality

	Agile Approach	Traditional Approach
	Herahy	dinear
Scale of Projects	Small and Medium Scale	darge-Scale
User Requirements	aidulggs 1	ton toplementa Cleany defined before
Involvement of clients	High	Low
Development model		difi cycle
Customer Involvement	Customers are involved from	in starting, Customer are only involved hot once projector starts.
Escalation management	Incose of problem, entire team resolves it.	Escalation to managers when problem rise
model preference	Agile favors Adaption	tradition favors Anticipation
Product or process	hus focus on formal and directive processes	More series about process
Test documentation		comprehensive Test planning
Effort Estimation	scrum moster facilitates and team does the estimation	Project managery provide
Reviews & Approvals	Reviewe are done ofter each iteration	excussive Reviews and approvals by leaders
20 pagasile baptibble		

3.>	What is meaning of cots? Which Process model is it based
	on and Evaluate its advantages and disadvantages.
3.>	COTS (commercial Off the shelf)
	It is any prebuilt package software or an application
	that is made to address complex challenges of business through
nelg/htm	a single application.
Jord.	Example - Adobe & Microsoft (Ready to install & easily available
	Modified to general public)
	MOTS - fox) change in source code, as per business specific needs
	GOTS - Government agency needs (public sector)
	1 de la machail
	/ Vendor/
2/11 314	The state of the second of the second of the second of
. 1089	org one till homorry a word and and
an and	Requirements Design Coding
in a	HOTO AND THE RESIDENT MANY
and A	COISI MANY LONG
	[COTS Identification] Selection COTS integration
q bodi	COIS Process Model Many to but and
buh	org an mat property subsult
1387	Advantages Dis d'advantages
	straightful and was wall and the straight
2, 14	1 Reduced Purchase Cost 10 No competitive Edges
1200	@ harger technical Assistance @ Unknown Business Roodmap
3 3 8	3 Easily Deployable 8 Extra featury
who	@ Timely upgrades @ Higher Cost of Installation
	(5) Additional dicensing Cost (6) Monotonous

4.7	Why Prototyping of softwares are done? Prepare note on Prototype developing process.
4.>	Karap and be appeal signed a post and at a
	Prototyping of software & is done due to following Reasons
	years of artist to both regal with the last
	D The customer get to see the portial product early in the
	dite cycle. This ensure a greater level of customer satisfaction
	and comfort. Agricular hung - 2 gold
	De New regierements can be easily accompodated as then is scope
A	had bot refinement by
alen	3 Missing functionalities can be easily figured out.
130	(4) Errors can be detected much earlier thereby saving lot of efforts
4	and costs, besides enhancing the quality of software.
	15 The developed prototype can be reused by developer for more
4 1	complicated projects in the future
	podouther technology
Abor	Prototyping Model Phases
bo	complete at mod betaller are willinging for targets (a)
	vogstyet at behong
	Requirements Duick Build User Refining Implement
	Design Prototype Evaluation Prototype and maintain
151 11	Step 1: Requirements gathering and Analysis
1002	the strategy was and of bulgario the said of raise
***	DA prototyping model with requirement Analysis
	1 In this phase, requirement of system are a defined in detail.
	3) During the process, user of system are interviewed to know
1 254	what is their expectation from the system.
-	contribute of knowledge from the state of any state of the

Step 2: Quick Design

- 1) In this stage, a simple design of the eyetem is creeked thowever it is not a complete design
- 1 gives brief idea of system to user
- 3) Quick design holps in developing the prototype.

Step 3: Build a Prototype

1 In this phase, an actual prototype is designed based on the information gathered from quick design- csmall working modul of system)

Step 4: Initial User Evaluation

- 1 In this stage, the proposed system is presented to client for an initial evaluation
- 1 Thelps to find out strength and weakness of working model.
- 3) comment and suggestion are collected from the customer and provided to developer.

Step 5: Refining Prototype

The user is not happy with current prototype, you need to refine the prototype according to the user's feedbacks and suggestions

step 6: Implement Product and maintain

it is throughly tested and deployed to production.

System undergoed routine mointenence for minimizing downscale & prevent large-scale failures.