

Q: Why we heed SIW Quality models? When we have siw dev. models.
usability.
* Prod. Revision factors,
Maintainability, Flexibility, Festability.
* And. Transmicsion Factors:
Portability, reusability, Interepercability.
18. Map the requirements for "Superlab" Slw System to Quality "factor using Mc alls model.
to Quality Hactor using Mc'alls model.
in a state of failuse during 9-4pm to head to below 0.5%. (reliability)
in a state of failure during 9-4pm to rega. to
below 0.5% (reliability)
2. The superlab consisting a module that prepare
detailed report of Patient's lab Testherults.
3. The siw will enables direct transfer of lab results
to "M-D files Slw Pkg (interoperability)
4. The "superlab" will also be able to accept CT-scan-files in few months. (Flexibility)
in few months. (Flexibility)
5. It will becord detailed user's log. The system will report unauthorized attempted the system will separate
report unauthorized attempts
(integring)

6. The training of lab technician read, no move (wability) 7. The "super-lab" system that deals with billing that can also be used as a subsystem of physiotherapy siw pkg" thewasility) g. The siw should be able to runon 12 workstations & 8 automatic testing mic with a single model Server AS20 portability) (flexibility) (efficiency) 9. Show developed for linux os should be compatible with Windows os iprotability) Usability vs Functionality is a Tradeoff in the Sense lone lacks widelstanding of some system Phovided that high functions can costly reduce the usability too the end user (vice-versa not troe) Unability us Portability is a trade off when usage of using the software changes with respect to in the different systems.

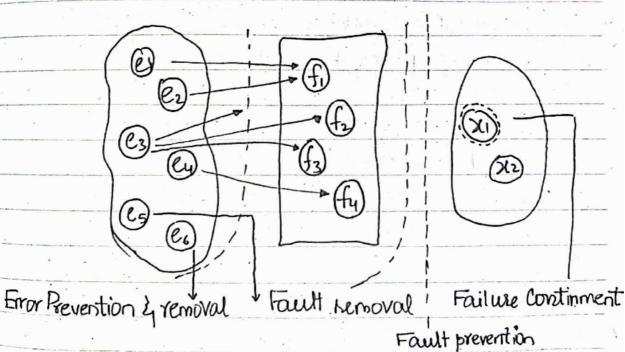
## Performance is Security.

One cannot achieve high performance by security in a single system because often high performance leads to a cortain big loop holes and if one tries to create better security, performance will be compromised eventually.

(vice-versa not true)

QA As dealing with defects

WK-07



1) Defect Prevention. Through error blocking/error

source removal

2) Defect Reduction: Through Fault Detection & removal

z) Defect containment: Through failuse po prevention and containment.

(1	Defect Prevention Alternatives.
	Defect causes:
	→ Human misconception.
-	→ Imprecise design and implementation  → Non-conformance to selected processes  → Tools/Technologies
The same of the	- Non-conformance to rading by own mettion
	- Tools/Technologies
	Alternatives:
	Eduration 1 +
	Education & Training:
	a como in constitu
	- Develop process knowledge
2	2) Defect Reduction:
-	Alternatives.
to the state of	- Inspection (1)
	→ Inspections (1 to 2 weeks duration)  → Slw Testing.
	when &
\ \ •	At what IV, we need to stop testing?  After we get coverage info (like)
HOL	: After we get coverage info. (like:
	After we get coverage info. (like:  Various Causes Of SIW errors:  1. Faulty definition of requirement
	1. Faulty definition of requirements (SA, C)
	The company of the co
. L	TOTAL SIM KEGIMM. (By D)
	4. logical design ever (SA, TT  5. Coding ever. +P, TT

- 6. non-compliance with education documentation of coding instruction. (SI, TT, P
- 7. Short coming of testing process. (TT
- 8. Documentation error. (5A, IT)
- B: Classify the source causes of enoris) all to group responsible for this error

Client; System Analyst; Programmer; Testing leam.

Arts: Done on above Example.

Cost of SIW Quality:

"Fixing bugs a later stages are more expensive than a early stages of development cycle."

(:Agree)

Total Cost = PC+AC+IFC + EFC of Sw Quality.

Prevention cost

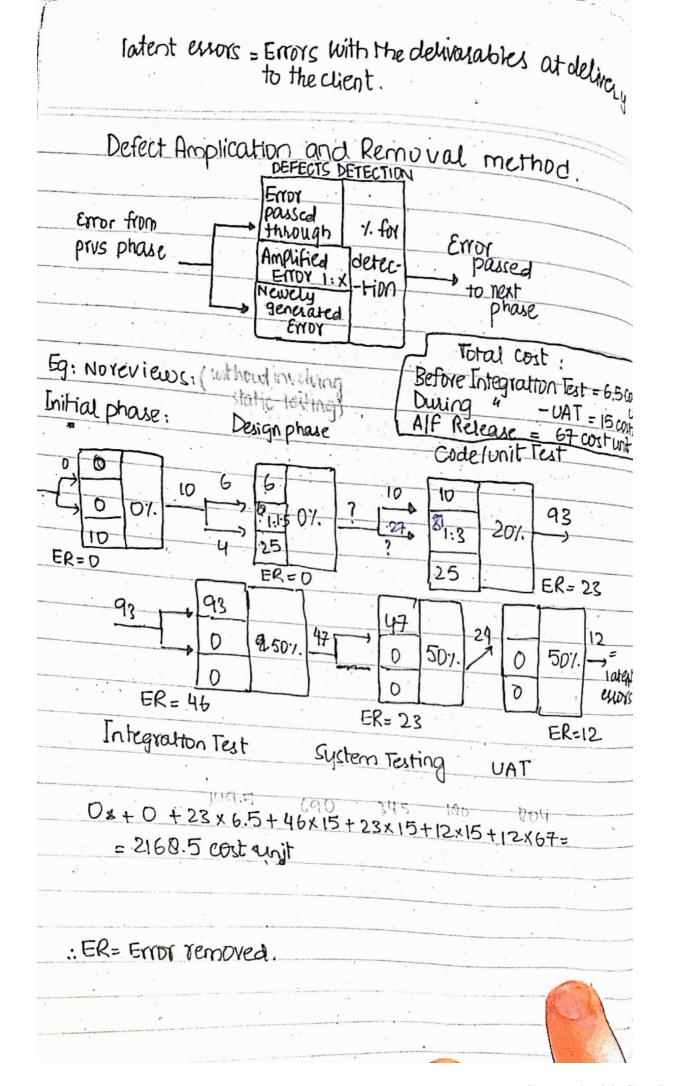
Internal Failure cost

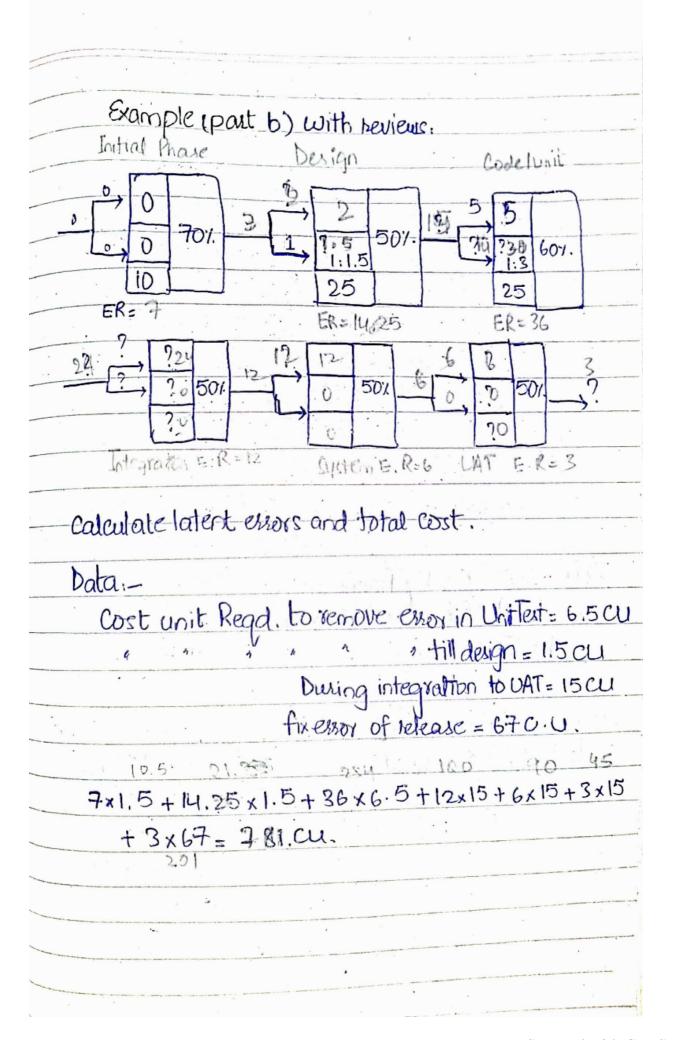
External 4 4 (After product deliver.)

Importance of Roftware Quality models

Software quality drives predictability. Do it.

Once and doit hight of there will be less re-work, less
variation in productivity of better performance overall. Products
get delivered on time, of they get built more productively
Poor Quality is much more difficult to manage.





Software Quality Enga	g. Activities:-
The state of the s	Cl
	Set Quality Groats
	Joach
Quality Scheded , QA	No Bratty Yes Est
Planning activities activities	satisfied
	Adjustments 1
Selected	V
measurements Quality A	scerement analysis/
1) ( Common many	were enti
Svality Wodels	According to the Control of the Cont
SØE activities	
DOJE CHATOITIES	
A D	
1) Phe - SIA & Quality Planni	ngs
a) set specific Qual	ity goals
a) set specific Qual b) From form an ov	Scall DA cti
	Sharegy
2) To-QA & Execute ale to	1.01-
on Port - DA I Russie Man	hanning
(This start of 121 to 10-8A in the	wement, assessment & improve-)
On the basis of 3	coftware activities, me
achieve goals:	activities, we
V	And the second s