EMERGENCE OF SOFTWARE ENGINEERING



History And Need of Software Engineering: -

History

More Focus on Hardware :- In early days of computing the primary concern was with

building or acquiring the Hardware. If the Software didn't work, People thought, it would be easy enough to change it until it did work. In that case, Why make the efforts to plan?

Software Cost Consideration: The Cost of Software amounted to Such a small fraction of the

Cost of the hardware that no one Considered it very important to manage uts development. People time was ossumed to save machine time. Making the people process efficient received little priority.

Meeting People's Expectations! - When Computing matured, programs became more Complex and Larger.

A team effort is required for program to be Routinely Specified.

Written, operated, and maintained so people's expectations would be fullfilled:

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Exceeded Cost: - As program become large and complex and the time required to write programs and their Costs began to exceed to all estimates.

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Time - Development! - Programmers started to take weeks, months or years longer than expected to complete. The Systems turned over the client frequently did not work Correctly because the money artime had our out before the programs could be made to work as orginally intended.

US millitary, Several million Dollor project was abondoned due to it could never be made to work properly.

Quality Concern: As Computers and their programs were used for more vital tasks, like Monitoring UFE

Support Equipment, program Quality also become new Concern.

Change - Expensive: Making a change within a complex program turned out to be very expensive. It was quiet Easier to throw a program than to expect from program to do thing different Slightly.

Tuntal Specime

Fast and Rapid Change in Hasdware and Software:

As tubes were replaced by transistors -> integrated Cincults.

The Cost of Hardware which had to be increased was getting low. The times and Costs to develop the software were no longer So small, Compared to the hardware, that they Could be ignored.

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Wrong Analysis of client Requirement !-

Programmers were often thought they had understood the client requirements. Once the program had been written, the went began to express dissatisfaction.

No Satisfactory System :-

Unfortunately, lintel Several years ago no good method of representation existed to describe Satisfactorily Systems as complex as those that are being developed today.



