

# **SNS COLLEGE OF ENGINEERING**

Kurumbapalayam(Po), Coimbatore - 641 107 Accredited by NAAC-UGC with 'A' Grade Approved by AICTE, Recognized by UGC & Affiliated to Anna University, Chennai

# **Department of Information Technology**

**Course Name – IT8075 Software Project Management** 

**IV Year / VII Semester** 

**Unit 2 – Project Lifecycle and Effort Estimation** 

**Topic 6- The Basics for Software Estimation** 







### Answer following questions

you want to buy five magazines that cost \$1.95 each. When you go to buy them the cost is \$12.25. Is that right?

you want to plant a row of flowers. The row is 58.3cm long. The plants should be 6cm apart. How many do you need?

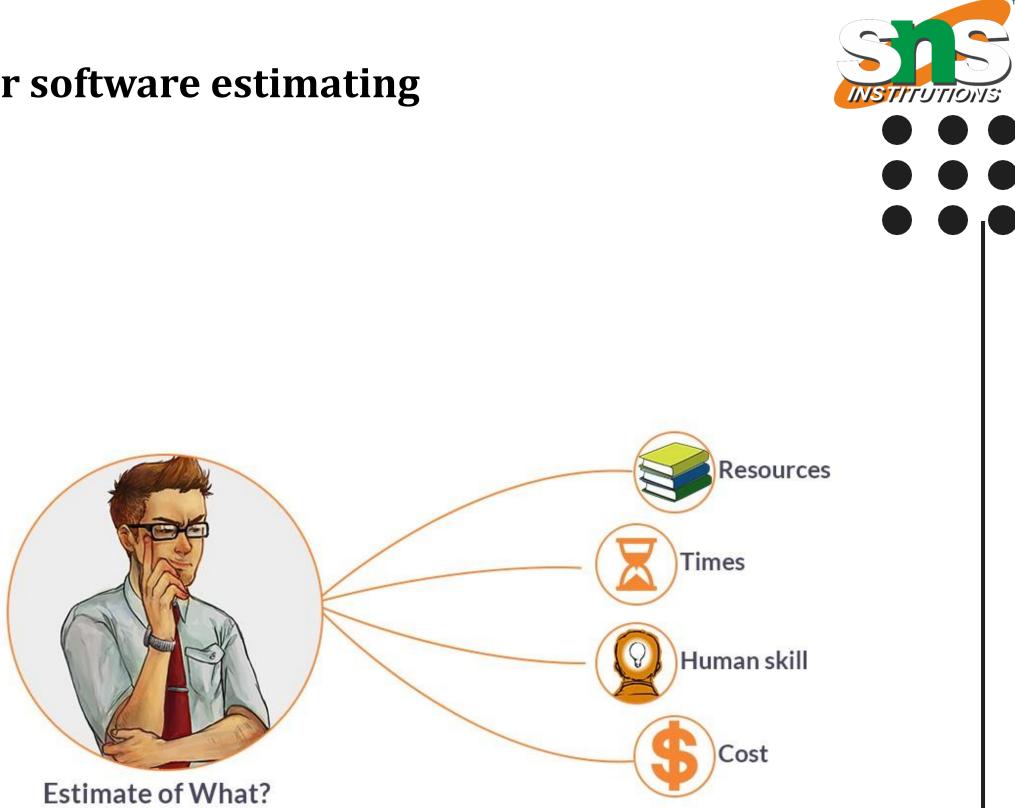
You want to build a house and have 15 lakh. What features would you consider for your house and how?

30/09/2023





- The need for historical data ullet
- Parameters to be estimated lacksquare
- Measure of work ullet



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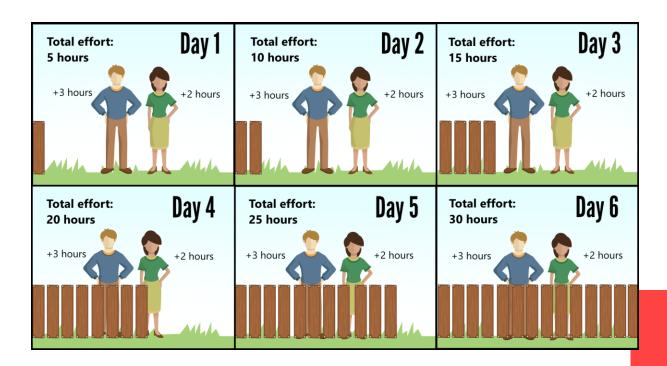
The need for historical data

- Past project info.
- If no past info, external datasets ulletaccessed
- International Software Benchmarking ulletStandards Group (ISBSG)

Parameters to be estimated

- Effort work month(wm) or person ulletmonth(pm)
- Duration measured in months •

Date	Open	High	Low	Close	<b>Shares Traded</b>	Turnover (Cr)
1-Jan-03	0	0	0	1000	-	-
2-Jan-03	0	0	0	1008.03	-	<u>12</u>
3-Jan-03	0	0	0	1004.49	-	-
6-Jan-03	0	0	0	999.85	-	
7-Jan-03	0	0	0	997.81		-
8-Jan-03	0	0	0	1005.31	-	
9-Jan-03	0	0	0	1013.33	2	72 (2
10-Jan-03	0	0	0	998.61		-
13-Jan-03	0	0	0	993.25	-	
14-Jan-03	0	0	0	997.95		5 <u>1</u>
15-Jan-03	0	0	0	1003.67		-
16-Jan-03	0	0	0	1006.77	-	a
17-Jan-03	0	0	0	1005.35	-3	<u>=</u>
20-Jan-03	0	0	0	996.65	-	-
21-Jan-03	0	0	0	998.93		
22-Jan-03	0	0	0	1002.35	-	-
23-Jan-03	0	0	0	991.66	-	-
24-Jan-03	0	0	0	977.08		<u>19</u>
27-Jan-03	0	0	0	959.04	-	-
28-Jan-03	0	0	0	967.5		
Input	Ratio's In	dex Data	Total Ret	urns Index	India VIX	]/







### Measure of Work

- Also called as size of the project
- Work = Cost and Time for accomplishing project.
- Time taken = Competence or Experience
- Implementation Time = Varies based on CASE tools used
- Estimate of Project size Independent
- Effort and Time Dependent variable
- Project Size Problem complexity in terms of effort and time needed to develop product.



















Measure Size Metric

- SLOC Source Lines of Code Simpler
- FP Function Point Improved version of ulletSLOC

SLOC Shortcomings

- No precise definition
- Difficult to estimate at start of a project
- Only a code measure
- Programmer dependent
- Does not consider project complexity

C qlogi	icpti.h 🗙	
44	*/	
45	#define	QLO
46	#define	QLO
47		
48	/* mail	box
49	#define	MBC
50	#define	IN
51	#define	HOS
52	#define	TES
53	#define	CO
54	#define	CO
55		
56	/* asyn	c ev
57	#define	AS
58	#define	SY:
59	#define	REC
60	#define	RES
61	#define	REG
62	#define	EXI
63		
64	/* Am I	fu
65	struct	Enti
66	#ifdef	BI
67	u8	ent
68	u8	en
69	u8	fla
70	u8	sys
71	#else /	*
72	u8	ent
73	u8	ent
74	u8	sys
75	u8	fla
76	#endif	
77	};	
78		

```
OGICPTI_REQ_QUEUE_LEN 255 /* must be power of two - 1 */
OGICPTI_MAX_SG(ql)
                      (4 + (((ql) > 0) ? 7*((ql) - 1) : 0))
command complete status codes */
OX COMMAND COMPLETE
                           0x4000
VALID_COMMAND
                       0x4001
ST INTERFACE ERROR
                           0x4002
ST_FAILED
                  0x4003
MMAND ERROR
                       0x4005
MMAND PARAM ERROR
                       0x4006
vent status codes */
YNC_SCSI_BUS_RESET
                           0x8001
STEM ERROR
                       0x8002
QUEST_TRANSFER_ERROR
                           0x8003
SPONSE_TRANSFER_ERROR
                           0x8004
QUEST_QUEUE_WAKEUP
                           0x8005
ECUTION_TIMEOUT_RESET
                          0x8006
cking pedantic or what? */
ry_header {
IG_ENDIAN
try_cnt;
try_type;
ags;
s_def_1;
_LITTLE_ENDIAN */
try_type;
try_cnt;
s_def_1;
ags;
```



# **THANK YOU**

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