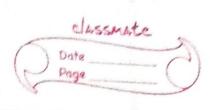
Project Estimation Techniques. The most commonly used 2 matrices that are used for estimating the. 4 Lines of Code (LOC.)
ex Functional Point (FP) In case of LOC, the project size is estimated by counting the no. of source instructions in the program while counting this no. somment line & breader lines sere ignæred Calculating LOC is easier at the end of the project but estimation process are sarried out during the initial phase of the project that makes this peacess the LOC in the beginning of the project, the project is divided modules modules are divided into sub-modules & this process of direiding is followed until the leaf-level module is obtained. Estimating the size of lest-level module is easier since such a module works for a specific task from Summation of LOC

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Empirical Estimation Techniques.

These techniques see based on making an educated guess of the project parameters & An earlier experience or exposure in handling similar type of projects is helpful in providing estimation under this category. The 2 approaches carried

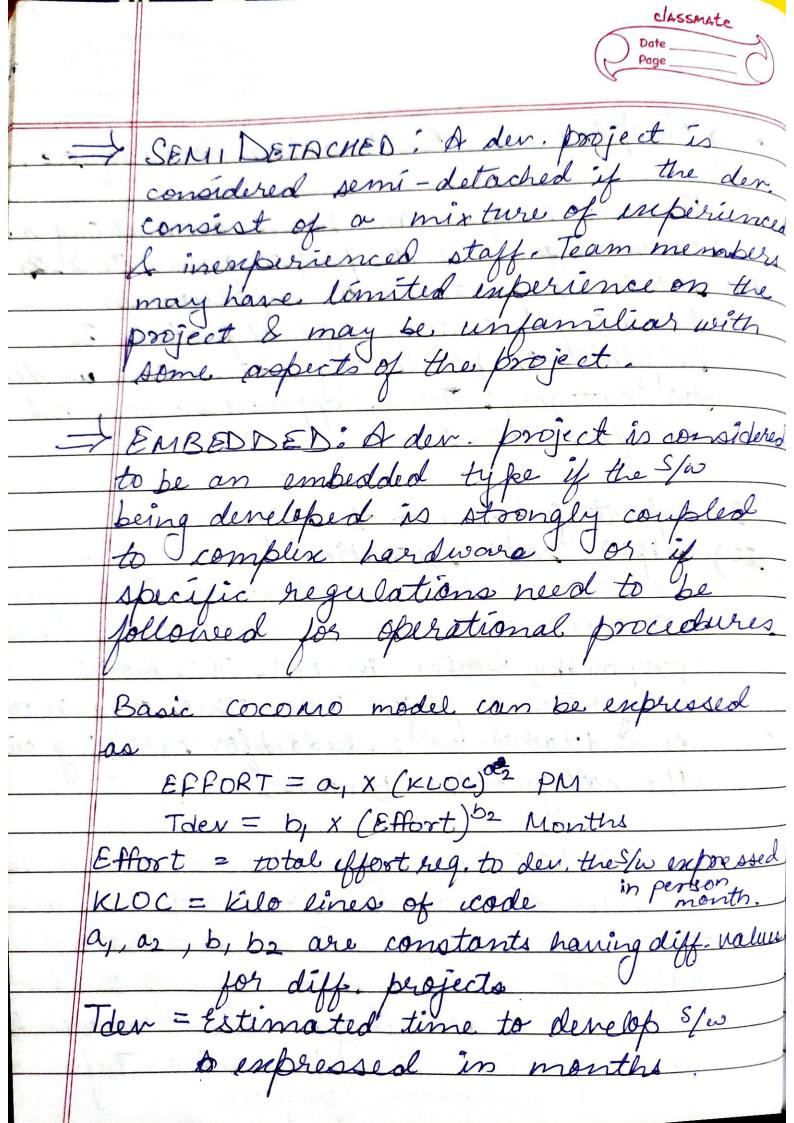
i) expert judgement technique i) delphi cost estimation

MEURISTIC Estimation Technique-· co co MO - Costructine Cost Estimation Model proposed by Boehn in 1981. This model

categorise a project into wither organic or semi detached for embeddedfor carriying out

the cotegorization process.

DRGANIC: A development project can be considered organic if the project deals with developing a well understood application program. The size of the dev team is treasonably small & team members are experienced in der similar lypes of





for organic $\rightarrow a_1 = 2.4$ $a_2 = 1.05$ $b_1 = 2.5$ $b_2 = 0.38$

Similar detached = $a_1 = 3.0$ $a_2 = 1.12$ $b_1 = 2.5$ $b_2 = 0.35$

Embedded $\Rightarrow a_1 = 3.6$ $a_2 = 1.20$ $b_1 = 2.5$ $b_2 = 0.32$

trample: You need to develop which has
been estimated to be 32000 LOC:

drawing that average salary of software
engineer is Ro 15000 per month. salculate
the effort nea and the development time
Assume the S/w is neasonably small and
experienced team members are handling
it.

Solution: Since the project is well defined

and that handled by inferience is

ed members, this is an organic project

i. a, = 32.4 a = 1.05 b = 2.5 b = 0.38

Effort = 2.4 x (32)" = 91 PM Tdev = 2.5 x(91)0.38 = 14 months

Soot req. to dev. the s/w is 14 x 15000 = 2, 10,000 Rs. * PUTNAM RESOURCE ALLOCATION MODEL Design & Corling Norden/Rayleigh & curve Deployment This is used to estimate project, effort & schedule.

L = Cx K 3 to The above expression is used to calculate productivity level in Putnam resource allocation model. K = total effort expented in product to = time required for den of project Cy = constant whose values are 2 for poor development devenvironment, 8 for good " " and 11 for excellent

