| | MDDULE-3 |
|-------------|--|
| (a) a) lan | Planning |
| • | The s/w peroject mgmt perocess begins with set of artivities called |
| | pargiect planning |
| | Basic Powess of Powject Planning |
| () | SIN phinning: - Specify in-scope sion. Jose peroject to publitate |
| .0. | creating work break down starusture |
| | Paoparatrof Work Broakdown Stourfusie: - Breakdown the project |
| fin) | Paralest Schoolule Davallanmanti- 18182 entre 201. 1 18010 |
| VII. | Poroject Schodule Development: - Listing entire schodule of activities & seq. of implementate. |
| (iv) | Resource Planning: - It specifies who will do what, at which time & my |
| Lychards 17 | special skill needed |
| | Budget Planning: It specifies cost to be incurred at time of |
| tute dia | complet of peroject. |
| | Perocusement Planning :- It Jourses on vendous outside company? |
| | sub-contracting |
| 1 360 | Rick mgant |
| | Quality planning |
| | Paraject Esternato |
| e | Following peroject alterbutes agre estimated |
| 7 | Cost: How much it is going to cost to dovelop the of poundant? |
| -> | Eggost: +" " effort would be necessary to develop the "? |
| > | Dusid :- " long it is going to take to develop the pouduct! |
| | |

| | a 10) A suit plan describe on accuracy of colorales |
|---------------|--|
| | Quality of peroject plan depends on accusiacy of estimates |
| | Pascametesis!- |
| 7 | Poroject size |
| | Effort sequiscod to complete the paroject |
| 7 | Pergeet duration |
| \rightarrow | Cost |
| • | 3 techniques: |
| ci) | Empionical Estimato techniques |
| | Heusistic techniques |
| | Analytical estimato techniques |
| | Cost Estimat Models |
| | Boroadly classified into 2: |
| (i) | Alangithmic Models |
| _ | Estimat is done with mathematical equations, based on historical |
| | data on theory. |
| -> | 3 models age: |
| (a· | COCOMD -> Constauctive Cost Model |
| | |
| (b) | |
| (E) | Non-Algorithmic Modele |
| (11) | Estimate depends on passions expessionce of possient managers |
| -7 | COCOMO Model |
| | It is used to estimate size, affort & cluster based on cost of |
| • | |
| | Size is measured in thousands of delivered lines of code. |
| • | |
| | (KLDC) |

10

| | | | | | EDGE | | |
|------------|---|-------------|---------------------------------------|--------------|-------------|------------------|--|
| • | It divides peroj. | ects into 3 | categosiie | s based | on cost | auth * | |
| (i) | Oorganic (2-50 | (KLOC) | 0 | y 1 | 200 | 17 m | |
| | Semi-detached | | KLDC) | | Carl with | 4.07 | |
| | | | | at Lawlin | tanger leve | at le | |
| 24 2/20 | Embedded Con It is based on A | le sauchy | of 3 moo | lels: | | 1137 10 | |
| <u>(i)</u> | Basic model | 0 | В | | | 000 | |
| (0) | Integimediate " | | | | woln's | 181- | |
| (iii) | Advance " (Detailed) | | | | | | |
| | Basic Model | | 1 | and contract | h States | all bi | |
| | E = ab (KLDC) bb | 20 | a characterist | House | lastine | AR . | |
| | D=C(E)db | | 2 | P Mode | to tool 2 | Coak | |
| | where E > Effort applied in Peason-Months & D > development | | | | | | |
| | time in months | | | of the | Simples. | alk he | |
| 1-7-4-74 | on hand anddou | o habin | Above & | Fiel and | 2 4 | 4-1- | |
| | S/N Project | ab | bs | Cb | db | algh. | |
| | Degante | 2.4 | 1.05 | 2.5 | 0.38 | n 8 1 - 1 | |
| | Semidetached | 3.0 | 1.12 | 2.5 | 0.35 | nosia | |
| | Embedded | 3.6 | 1.20 | 2.5 | 0.32 | | |
| 0 | A project of 20 | OKLOC # | s to be o | leveloped | 8/H C | levelopment team | |
| | has any exp. in | similar | tupe of | projects | The po | roject schedules | |
| | not very fight. | Calculate - | the estopol | develor | ment tin | ne. | |
| ans. | KTO(= 300 \$ | Semideta | ched => c | 1 = 3.0 | . b. = 1.1 | 12 6. = 9.5 | |
| 1.4 | no had the way | 2 dunte | d | b= 0,35 | 4 | 111 | |
| | Eglost, E = ab C | KLOCO = | | | | 2 Design | |
| | | .n .) | · · · · · · · · · · · · · · · · · · · | | | | |
| 0 | | 6 | | | 6 44 | | |

| | Development time, D= ((F) db = 2.5 (1133.12) 0.35 |
|---------|--|
| | = 29.305 months |
| | Avg. Stall size, (SS) = E |
| | D A |
| | $=\frac{1133.12}{2000} = 38.67$ Peassons |
| | 29.3 |
| | Peroductivity (P=KLOC 200 0.176 KLOC/PM = 1133.12 |
| | O E 1133.12 |
| 2 | An ATC possiect of size SOOKLOC. Find E, D, SS, P. |
| ans- | 500 KLOC -> Embedded > at= 3-6, bt= 1.20, cb= 2.5, dt= 0.32 |
| | E = 0,(KLOC) = 3.6 (500) 1.20 = 6238.30 PM |
| | $D = C_b(E)^d = 2.5(6238-30) = 240.96 \text{ months}$ |
| | $\frac{215(6238-30)}{152.30} = 240.95 \text{ months}$ |
| | 8S=E- 18:34 Resisons P= KLOC = 0+080 KLOC/PM |
| 26 2 20 | D = = = = = = = = = = = = = = = = = = = |
| | Interemediate Model |
| 7 | Hese, pasiametesis like s/w reliabelety & s/w complexity are |
| 7.43 | also considered along with size, while estimating effort. |
| 7 | Total official = EAF X Ei EAF -> Effort Adjustment Factori |
| 7 | To estimate total effort, a no. of steps are followed: |
| 6) | Calculate an initial estimate of development effort |
| (n) | Identify a set of 15 pasiameters, which are desired from |
| | attentiones of cueront peroject (Cost daiveas) |
| (iii) | Adjust the estimate of development offort |
| | |
| | |

| | | EDG | |
|--------------------------------|-------------|---|---|
| Ei= Ax (size) | M. C. | a sale le m | of land to |
| EAF = Psioderob of | | | |
| | 199 | | *** |
| Parofect | A | В | , |
| Organic | 3.2 | 1.05 | |
| Semi-detached | 3.0 | 1.12 | |
| Embedded | 2.8 | 1.20 | ALL S |
| | 1138 12 | 1 | |
| a sp. a r kg | 3 . Vallena | in b Lines | NE + 19 |
| 2000-600-600-600 | 20.061 | 0 01 | 12 11 13 |
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| athem 88.003 | (08-38) | (a) ers = (a) | 43 - 4 |
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