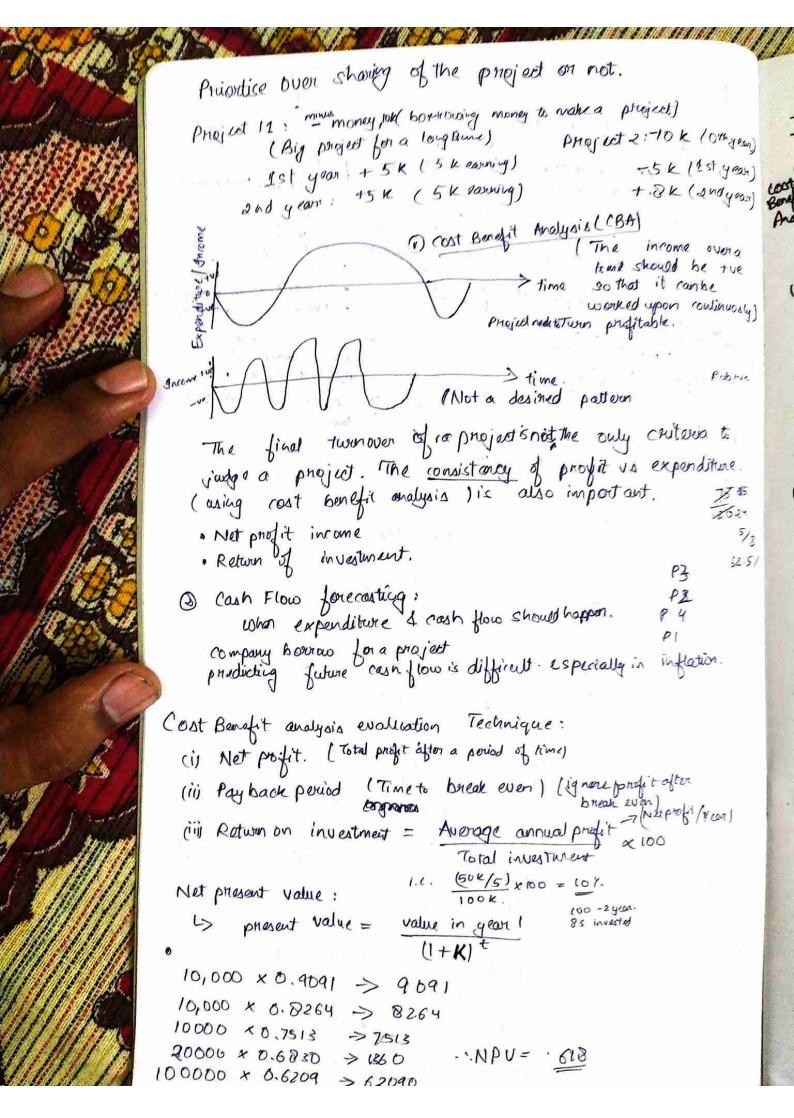
2019503549 23/08/2022 Pays Your Software Project Monagement: PROJUNE Price es - Tasks · Quality. Chow much a andard product weeks to follow. SOLE Models Mark produkt e what client can pay -3 introvalal . Resource. (what client ran provide as extrume) -> voterfall. · Requirement (client's need) -> prestightue. · Deployment (when the product wedsta be neady) · Class-collaboration-Responsibility CPMCO > deployment > Releasing. · Wuality Function Deployment · CAM VO CMMI proved flows communication construction > coding . compry - justowal organization. beta -> small public lideus Planning. diagram use case diag. model alpha -> smade public all Software does not brook down standard. Maintenance: Control Management. . Software project Managament. Charge / configuration Monggenent -> 1806 Hughes. Business Case: Stakeholder: o Cost > Client @ Delivery date > Developer 1 Featured of the system > Tester -> Manager Project Monitoring > Functionality. Project Project > Quality. planning -Project Plan Revision Closing > on time > Budget. Risks: acceptable risks; unacceptable risks. Scaling was rusk from 0 to 1 Known risk ; Unknowing tisk (Ampact is low) (Ampact is high (Ampad is high) Bugs, Envinonment everes, System Chashes, Last minute changes Risk Management, Risk mitigation. Project Portfolio Management: Phovides overview of all projects that the organisation undertaking. · Portfolio definition. - Portfolio managemennent & Portfotio aptimisation diffi pringlect are going on one project code can be shared to get better delivery data and less root coptimization)



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    78 as
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7/9/22 Capital Budgeting: Investment decisions are called. portilis Net Present value (value of netwer of inventoment) Discounted in Internal roots of retwen (7. of noi) in Profitability index (profit natio for money spent) (iv) Payback Period, (time to necover investment) Non discounted oppurtunity port taking project & nothe 2 nd & willing to ignore profit of lass of 2nd. Cash Flow: - Discounted cash flow: Rate of netwern that an organisation is willing to bein order to muest 4 gain prafit from a project in future. Future value of money = Present value of money (1+ Discounted) year. I.e. FV = PV/ 1+K)? -> (like compound interest) Present value = £100 (invested) Discounted nate = 87. (may earn 87. por year) 5 × 100 1st year = 100.00) Future value Bion 1st, 5th, 15th year 5th year = 146.43 16th year = 317.21 Jan of \$ 100 is to be neceived often 1 year 1 5 year 15 year Discounted nate of interest = Dy. (1+0.08)' = 93to the factor of stone The alkeon has al (1+0.08) = 60 auto 1 poter levelar it PV = 100 (1+0.08) 15 = 32 (is Not present value = present value of cash inflow-present value of en: Net salary in salary slip = gross income - deduction if NPV >0 -> accept pheleut NPV <0 > neject preject A Surgary

NPV = 0 (tangible benefits) : greater the NPV, better the

main outflow. ex: Sum of 400,000 is invested today may give sources below rash inflowers.) influture. 70,000 in 1st year. 120,000 in and year (Future values are given,
120,000 in and year need to calculate present value). 140,000 in 3d years. will be the book of 140,000 in year 4 40,000 in year 5 If appointmenty next of capital is Dr. per annum, then showed too accept of neject project. $\Rightarrow PV = \frac{FV}{(1+K)^n}$ WPV \(\frac{1}{discount ed note} \) 1: PV = 64 814.81 (TOODO (+0.00)) 2: PV = 102,880 ((120,000)2): 3: PV = 111136, 51 (140,000) 4: PV= CO2904.18 (190,000) 5: N = 27 223,32 (1+0.0015) :. Net present value = PV of cash inflow - PV of cash outflow = 408959.49 - 400000 = 8959,49 >0 1 accept the project. (in strong thate of netwon: The discount nate at which NOV becomes. zero is the Internal grated metwon. Discount Hote = 04. NPV=5000 Discount note = 127. APV = 0 > is the Enternal note of netwer. Discount note = 20%. NOV= -7000 ex: cost of a preject is 1000, incremental cash flows and Year 1: 200. Compute IRR if opportunity cost of 3. 800 capitalis pero 127. 4: 400 Should we accept the prayect

6.0

(1)

6

PUS: (1+0. 3)3 = 213.53 (1+ 0 =)14 = sum of 25,000 invested :. PI = 26600 = 1.07 13/9/22

DV 2 : 800 = 234.16 - Partie Broken (1+0. = 15 = 203.71 mg put pridings to which it is NPV = 1169.01- \$1000 = 169.01 >0 (: accept) of the near the discourt nate, New will decrease) (ii) Profitability index.: For every dollar spect, how muchoe got back

PI = cosh inflow / cosh out low a: Required nate of netwon = 127. pa 5,000 in youl, 9k 2nd, 10k 3nd, 10k 4nd, 3k 5m > K = 12% Out 1000 = 25 K after cake, inflow = 2600 ok. (accept prejed) (iv) Payback period : time taken for project to generate money ber itself Payback period (discourt) : use k. to find AV broom FV Payback period (non discounted): PV=FV

becomes.

tflow

etwen.

Risk Evaluation:

1. Change in Requirements

a. Budget

3. Competitions for product

4. Odaying Deadline

5. Resource strategies

6. Security

Importance .

High

High

LOW

High

Like lihood.

Medium Medium-Low

High Medium- High

nigh

Medium

Low

Medium

Payholl application value income 1): 8 takh per gan > 1 out of 10 chance (no competitions) 6.5 lake por year > 6 out of 10 chance (in b/10) befor a company lakh per gran > 3 out of 10 chance (competition launches sinular app) dupt cost = 7.5 lakh, sales expected to be constant Annual cost of marketing = 2 lake would launching the application be good decision?

> Need to make income forecast table:

нуп	Annual Salus income	proditability.	expected when $0 \times \rho$.
Medium	- 1. Lag - 1/11 6.51 1 11.1	0.6	\$0,000 \$40,000
Low	my the whole a stand on	0.3	20,000
Expected	I rome pary cars.	4 12 14	5,00,000 5

Since dupt cost is one time ignore for now, cost-sales = 201-01 (4yrans) = 121. profit. but low profit xisk is : 30 y. which is significant.

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Ment of Continues of

THERE AS DON A,

. Do not take this project.

Risk profile Analysis: Use cost benefit thee. Z (prob & profit) - (probx.less) PA I (b) bear of wall to

9/9/22 Agile Methodologies

-> Crystal Technologies

-> Atom (formerly ASDM)

> Feature Oriven Development

> SCHUM -X-

while imposed in many bases >> Extreme Programming.

mulhary

Saftware estimation takes place in step 3 & step 5 in

11

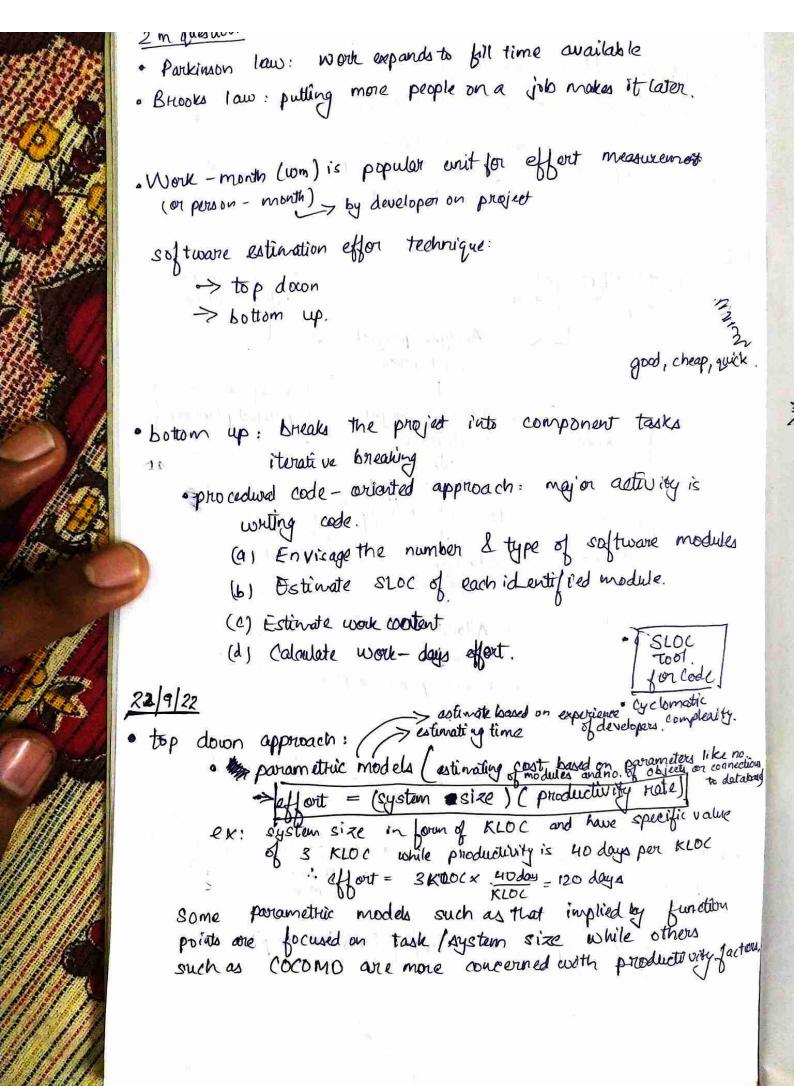
· Kloc > & lines of code. (SLOC) cyclomatic complexity 10 is more complex coupling than 5 cohosion.

productivity (SLOC per work month) (Question imp)

Tud IM D

130 4

20010 (www)



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120
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rodules lode mplexity. ex like no te detabas e value KLOC undiou WIS mody factors.

23/9/22 Albricht Eurolian Point Analysia: > External input types: input transactions which update 5 major wer components internal computer files > External output types: transactions whose data is output to user > External inquiry types: provide info, but without updation. of internal file. -> Logical internal files: standing files med by a system such as necod types (nelational table) > External interface file types: allows input I output for common files for applications ex: Bankers Automated Cleaning System (BACS) IFFUG file type complexity. (For Albrecht complexity multiplicos) No of data types > No. of Horard types 20-50 42<u>0</u> Avg Low 1 Low High ΑΨ 2 to 5 Low High. Aucrage 75 Technical complexity adjustments (TCA) calculation has many problem (FP count = No. of necond/class + No. of data type) · Function Point Mark 2: Information processing size is initially measured in undbuted function point (UFP's) Octastone. transaction: > PHOCES OUTPUT > Return to wan From Liver -UFP are calculated as: wi, we, wo Wi x no dinput data types ane weight given We x no of entity referenced by developer wo x no. of output data y pas ex: Wi=058 We=1.66 Wo=0.26 No. of input = 91 to of entity referenced. = ? No Soutput dota element = 10 :. FP = 9x0.58+2x1.66+10x026=11.14 FP