

Q2) A SW company with $CAVE = 1$ is hired on a project team gets along perfectly well the comp. is totally familiar with the app. there is no client involvement, a very thorough risk analysis has been implemented

a) given that 17 attributes are considered in estimating the SW effort, what coarse model is used to estimate the effort

b) Calculate the exponent term B considering the first sentence of the question

c) At the end of the project, SW effort estimated, E_{est} , is found to be 9/10 less than the actual effort, E_{act} ($e_E = \{ |E_{act} - E_{est}| \} / E_{act} * 100 = 9/10$)

Given that $E = A * B^{CAVE} * M$ and $M_{est} = 0.95 M_{act}$, what is the percent error, e_E , in the SW size?

Hint: e_E denotes the percent error in effort, A and M denote, in respective order the constant factor and multipliers. (4.5)

Q3) a) is the statement "Cockers are a type of distributed DBMS" correct? why

b) Cockers can keep the state at the client at the client side. what are two disadvantages of using cockers this way?

c) How should cockers be used to avoid the disadvantages you discussed in part b.

1 only
Questions

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Q2) a) Algorithmic Cost Modeling.

$$b) \frac{CMM=1}{15-1=4} \left(\frac{(4+0+0+0+5)}{100} \right) + 1,01 = 0,09 + 1,01 = \underline{1,1 \Rightarrow B}$$

$$c) A=2,94$$
$$E_{est} = A \times \frac{Size_{est}}{Size_{act}} \times M_{est}$$
$$E_{act} = A \times \frac{Size_{est}}{Size_{act}} \times M_{act}$$

$$E_{est} = \frac{80}{100} \times E_{act}$$

$$= \left(\frac{Size_{est}}{Size_{act}} \right) \times 0,85 = 0,8$$

$$M_{est} = 0,55 M_{act}$$

$$\left(\frac{Size_{est}}{Size_{act}} \right) = 0,941$$

Q3) a) In terms of keeping informations of user, we can say cookies are type of DDMs. Answer = Yes

(15)

b) In the case of hacking, hackers can reach user informations via site. Cookies can make our computers slower in terms of size problem.

c) Critical user informations should not keep in these cookies (password, credit card). Cookies must be cleaned in periodic time.

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