

Software Project Management KOE-068

Assignment-02

Prepared By

Nikita Patra 2100301530067

AIML-3B

Submitted to

Mrs. Neha Varma

Date of submission: April, 01

Assignment-02

Ques-1) Discuss how to manage the iterative process.

Managing Sterative processes:

DXP correctly emphasize the importance of communication and removing artificial barriers to development productivity.

2) Techniques of XP shows that many conscious techniques to counter the excesses of hacking and to ensure the good maintainable code is written.

3) Booch suggests that there were two levels of development (1) The macro processes

4) Macro Processes: Related to waterfall process model. We need to know

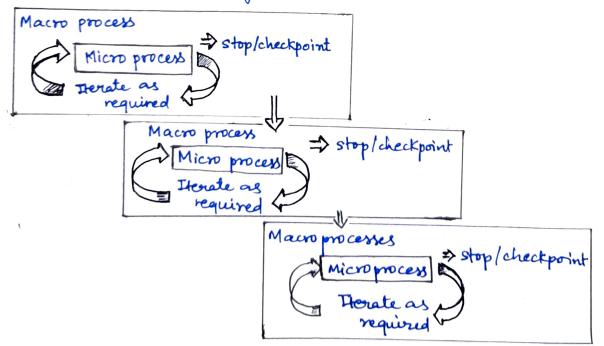
finished when we will need to bring in staff to work on sub-sequent activities.

s) Micro Processes: Within the Macro processes there will be micro processes

6) Mairo processes involves a number of iterative sub processes.

1) In iterative micro processes, the use of time boxes is needed to control at the macro level.

8) Macro process can itself be iterative. Each iteration should be treated as a project in its oron right.



A macro-process containing three iterative processes (micro).

WW 27 A project size of 200 KLOC is to be developed. Software development Team has average experience on similar type of projects. The project schedule is not very tight, Calculate the Effort, development time, average staff size, and productivity of the project.

<u>dus-2</u>) Given line of codes = 200 KLOC

.. It is semi-detached category project. We will use the basic cocomo model where. Project Semi-detached 3.0 1.12 2.5 0.35

1 Effort (E) = 3.0 x(200) 1.12

= 3.0 x 287.17 ≈ 861.51 Person-Months.

2. Development Time (D) = 2.5 x (861.51) 0.35

= $2.5 \times 22.58 \approx 56.45$ Months.

3. Average Staff size (≤) = E/D = 861.51/56.45 = 15.28 ≈ 15 persons.

4. Productivity (P) = KLOC/E = 200/861.51 = 0.23 KLOC/Person-Month.

Ques-3) Explain the following models: (1) Agile (2) Scrum (3) DSDM (4) Extreme Programming

ous-3) (1) Agile Method:

(1) It refers to a software development approach based on iterative development.

(2) Agile method break task into smaller iteration.

(3) The project scope and requirements are done at the beginning of the development process.

(4) Each iteration is called frame that is considered as a short time.
(5) It helps to minimise the project risk & neduce the overall project

delivery time. (6) Each iteration involves a team working through a full SDLC.

There are various agile approaches.

(a) Atern

- (b) feature driven
- (c) Schum
- (d) Extreme Programming (XP) (e) Crystal Technologies.

(2) Scrum:

This process focuses primarily on ways to manage task. How we manage task in team based development conditions.

There were 3 rows in it and their responsibilities are—
(1) Scrum Master-Arrange the meeting & remove obstacly

for the project (2) Product order - Makes the product backlog. Prioritize the delay.

(3) Scrum Team- Team manager organize the work to complete the cycle.

(3) DSDM:	
(1) Dynamic Software Development method. It is a rapid application	
(1) Dynamic Software Developement method. It is a rapid application developement storaterary for software developement and giving	
an agile project distribution structure. (2) The essential feature of DSDM that users must be actively	
connected & team have been given the right to make decisions	
(3) The techniques used in DSDM	
Time boxing	
2 Prototyping	
(4) DSDM project contains 7 stages (4) DSDM project contains 7 stages (5) Design & huilt iteration	
orre troped some treation	
② feasibility Study ③ Business Study ① Post Project.	
4) Functional model iteration	
(4) Extreme Programming (XP): This method is used when the customen	•
are constantly changing demands as	
ore constantly changing demands or berlormance	
performance.	
Quin-4/2 Com. 1. 4 C 15	
Gues-4) Compute the function point, productivity, documentation, cost per	
function for the following data. 1. No, of user inputs = 24	
2. No. of user outputs = 46	
0-	
3. No. of files = 4	
Solution - 4) 11 September 9 Anterfaces = 2	,
Solution-4) unadjusted function Point (U.F.P.) = $(24 \times 4) + (46 \times 5) + (8 \times 4) + (4 \times 10) + (2 \times 7) = 412$	り
· function Point F.P. = U.F.P x C.A.F. = 412 x 1.07 = 440.84.	
F = 14x3 = 42; $c.A.F. = 0.65 + (0.01x42) = 1.07$	
· Productivity = AFP/Effort = 412/1638.12 = 0.25	
· Downentation: Assume 20%.	
$= 0.20 \times 1638.12$	
= 327.624.	
· Cost per function = Total Project Cost = 1,000,000 = 2427.18	
7(2	
Ques-5) what is cosmic fff and what are the 4 Data movements in it 7 when there are 2 data movements given for all the 4 types. Find the functional size?	
there are 2 data movements given for all the 11 times of when	
functional size?	
COSMIC Full function point deals with decomposing the sunta	
architecture into hierarchy of system software. COSMIC recognise 4 data monements:	
(1) Entry (4) write.	
(3) Redd	

when there are 2 data movements for all 4 types.

(1) Entry - 2 CFP (2) Exit - 2 EFP

(3) Read - 2 CFP

(4) write - 2CFP

functional Mize = 4x2CFP= 8CFP

functional Size = 8CFP