Ans. to Qno. 1 (a)

(1) Given, team velocity is 100 story points

Velocity is the marrownt (aug.) of story point

that aav be covered in each sprint by the team,

For (16-20), we have (4x5) = 70 s.p. For (11-15), we have (6x5) = 30 s.p.

Together we, have the forth (70+30) = 100 s.p. that can be done in sprint to the next sprint achich is earl to velocity.

We take (16-20) = 14x5 = 70 s.p.We have to take (7,8) = 3x2 = 6 s.p.We take (12-15) = 4x6201 = 24 s.p.So, total = (70+6+24) = 100 s.p.So, we choose (7,8,127304712-20) for this condition. Ansto Qno. 1(b)

Given, AB

I think AB shald follow scrum.

Because there are multiple deli veries in even 2 weeks and some feartures owner't decided yet.

Scrum Frents are given blow:

(i) Sprint Planning
- Plans on what to select from backly for sprint
(ii) Sprint Review

(iii) Sprint & Retros

- Rospection of Last sprint and improvent plans.

(iv) Daily scrum Meeting

- Daily meeting of 30 mins

Ans. to Q. vo. 1(e)

The Linctional requirements are:

- (i) The app must support 1 million owens.
- (ii) The app must be provided service 99.98%. time and is unavailable, notify were.

(iii) App resilure should rand messages if another to respond in a fectord.

(iv) App shall respond within a second.

The non-surctional requirements:

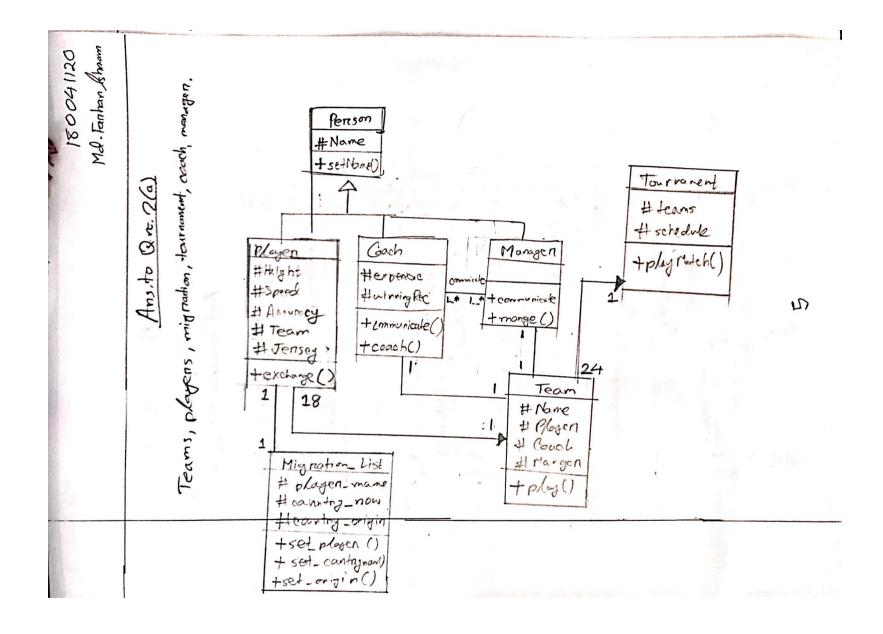
- (i) Shald respond within a second.
- (ii) CPV usage less than 15%.
- (iii) Memory less than 20 MB.

Ansito Qual (d)

For information retnievel system, we use Natural larguage as interaction styll.

The maines advantage that using natural larguage will make it accessible to the come casual users who arren't expent with the system.

The main disadvantage is that users need to type mone, to specify their requirements.



Ans. to Qno 2(b)

The required sequence diagram is given below Add Receivers to Far List

Mad Receivers to tar List
9
Usen Enterface: Mobile - UI Serven : server Bont - DONE
Usen
addReaivenReg()
send Add RecRea()
Checkif Receiven exist()
Alternate) checknoot Receiver()
if (no of Roceiven >5) askto Remove()
E rzemoverzeceiren VI()
selectReceiven()
remove Receiven()
nective Remodel)
confirmationMessage() \(\int
- +` - - - - - - - - - -
else (mceiven NoOkay()
confirmation Mossed
add Roceiven VI()
- select Receiven() and Receiven()
receiven Alded() add to fav ()
received Alded Massage ()
T Y
* *
•

Ans. to Quo. 3.(a)

I think, the Open-Close principle needs to be followed to ensure satisfy the situation.

Herre, the alient wants to add new features which are predicted before and didn't want to hampen existing code. So, are are open for extension but alosed for modification. If we follow OCP, then we can add new code without modifying existing code.

For example - client wants us to develop software to calculate are a of circle, and rectangle.

The code can be (which is DOES NOT tollar OCP) public double area (Shapel] shapes)

> A for Cint double area = 0; for (every strape)

if (shape == cincle)

{ aneat=(shape an radius)*(shape. nadius)* pi;

else if (shape = = rectangle)

arreat=(shape. length)*(shapet. brueadth);

ræturn anea;

If we want to cold a new shape, triangle, we need to modify, the area () Kunction.

Enstead what if we have sepenate reach readingle, and cincle classes with their own area () method. Then to And the area of triangle, we just need to add new class and will not modify this area function to find total area.

Following OCP,

public dauble area (Shape [] shapes)

return area;

Now, a new shape can easily be added in the Shape object annay as in.

Shape [2] = nea Shape; Thus, in this way morre teatures can be added without modifying the code.

Ans. to Quo. 3(b)

Herre, unaljusted function point UFP= (30+20+35+05)

= 98.

Again, For TDI, are have

1 significant, 1 moderate, are average and rest (11) identical.

So, TDI = 4+3+2+13×1

= 22

So, Value ajusted factor,

= 0.285