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Chapter No 3

Q:

- (i) Describe Extreme Programming (XP) in detail along with figure.

Def.:

Extreme programming (XP) is an agile software development framework that aims to produce high-quality software & higher quality of life for the development team.

- (ii) XP is most specific of the agile frameworks.

Values:

There are some core values of XP.

- (i) Communication: It includes collaboration b/w consumers & developers.

Continuous feedback is much appreciated.

- (ii) Simplicity: In XP, the developers must follow the principle of simplicity as it adds more value.

iii) Feedback:

Feedback is derived from three sources.

- ① Implemented Software itself
- ② Customers
- ③ Team members

Solve all cases with serious attention.

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The XP Process :-

- intends to improve quality of lifetime by following XP process.
- ④ Object-Oriented approach is used in XP.

There are four basic process/steps:-

- ① Planning
- ② Designing
- ③ Coding
- ④ Testing

① Planning in XP:-

Planning means to have an idea about different scenarios. Planning in XP aims to improve software delivery predictability.

By keep requirements in mind, it makes easier to estimate works effort, finance and even risk factors.

There are some other benefits of planning:-

- ④ Easy to read & write code.
- ④ Less chance of bugs & errors.

② Designing :-

Phase of process.

Designing is second XP development

Designers should follow the principle (KIS) keep it Simple.

Software design is the process of transformation the user requirements into some suitable form, which helps programmers in coding & implementation.

During design phase, the design document is produced based on customer requirements.

Software design process can be divided into three types:

- ① Interface design.
- ② Architectural design.
- ③ Detailed design.

(3) Coding ::

Coding is the process of transforming the design of a system into a computer language format.

• Coding is done by the coders | programmers who are independent people than the design.

• There are some standards of coding that helps software programs to be less complex and thus reduce the errors.

• If coding standards are followed, code is consistent & can easily maintained.

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(4) Testing:-

Testing is an integrated activity on an XP team.

Development team needs continual feedback, with customer expressing needs in terms of tests.

There are diff types of testing:-

- ④ Accessibility test
- ④ Acceptance test
- ④ Integration testing.
- ④ End to end testing

There are some benefits of testing

- ④ First & foremost, testing saves money.
- ④ Inspires customers satisfaction.
- ④ Improve Security.
- ④ Improves Quality.