

1. list several software process paradigms
- Waterfall Model
 - Prototyping Model
 - Incremental Model
 - Spiral Model
 - V-Model
 - Agile Model
 - RAD Model
 - Component-Based Development Model
 - Big Bang Model

2. Explain how both waterfall & prototyping model can be accommodated in the spiral process model.

Waterfall in spiral model

- each loop of the spiral follows :-
planning → analysis → design → implement
ation → testing

- structured approach resembles the water-
fall model

Prototyping in spiral model

- During the 1st analysis phase, prototype

- clarify requirements

- Reduce technical risks

Reflects the prototyping model, especially
when requirements are unclear.

8. Which is more important - the product
or the process?

Both are important but process is more
important than the product.

- A good process leads to

- High quality products

- predictable timelines

- Better cost control

poor process can result in

- Delays

- Defects

- project failure

4. Identify the umbrella activities in the software engineering process

- 1. project management

- 2. risk management

- 3. software quality assurance

- 4. technical review

- 5. configuration management

- measurement and metrics

- 5 Define a software process model & clarify the different types of process models with real world example.
- A software process model is a structured framework that defines the sequence of activities required to develop, deliver, and maintain software.
1. Waterfall model - Banking software
Where requirements are fixed and well-defined
 2. Prototyping model
A prototype is built app UI
 3. Incremental model - E-commerce website
E-commerce website cast, and payment cohene features like login, are added
 4. Spiral model - large defence or healthcare systems involving high risk

K.D. De
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