

## Software Engineering

### Home Assignment – 1

- 1) Summarize Perspective, Evolutionary, Specialized and Unified Process Models

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1. perspective model :- A modelling perspective is a particular way to represent pre-selected aspects of a system. any perspective have a different focus, conceptualization, dedication and visualization of what model is representing.

Evolutionary model :- It is a combination of iterative and incremental of software development lifecycle. Delivering your system in a big bang release. Delivering it in incremental process overtime the action done in their model some initial requirement and architecture envisioning need to be done.

specialized process model :- It take money of the characteristics of one (or) more of the conventional model however these specialized models tend to be applied when a narrowly defined software engineering approach is chosen.

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### Types in specialized process

- 1) component based development  
(promotes reusable components)
- 2) The formula methods model (mathematical formal methods are backbone here)
- 3) Aspect oriented software development (uses crosscutting technology)

unified process model :- The model consists of four phases including inception in which you collect requirements from the customer and analyze the projects, flexibility in cost, risks and profits.

## 2) Discuss Various myths and realities in software engineering

### 2. Myths

- (1) software development comes with a <sup>hefty</sup> prize tag.
- (2) users have no idea what they know what they want
- (3) The waterfall method still works  
software development has a fixed cost and strict time frame
- (4) There's always a Magic Bullet

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- (5) when the software is released, the project is over
- (6) A requirement of agile is that product owners and developers work in a single location
- (7) Outsourcing solves everything
- (8) Outsourcing means compromising quality

### Realities

1. Technical debts slows down projects immensely
2. Estimates are worthless
3. Better equipment is the cheapest investment in productivity.
4. New technologies are generally less risky than you think
5. Business analysts and managers do... nothing
6. You can do it quickly or properly
7. some developers produce less than zero code