

Software Development Processes (Methods) Assignment

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1 Introduction

Definitions:

Why modelling?

Project Characteristics & Considerations

Software process models

Selecting process model(s)

2 Related Work

1. Software Process the set of activities, methods, and practices that are used in the production and evolution of software

2. Software Process Model one specific embodiment of a software process architecture

3 Overview

Why Modelling?

To provide a common understanding

To locate any inconsistencies, redundancies and omissions

To reflect the development goals and provide early evaluation

To assist the development team to understand any special situation

4 Methods/Techniques

Which Model/Approach?

1. Look at risks and uncertainties e.g. are requirements well understood? are technologies to be used well understood?

2. Look at the type of application being built e.g. information system? embedded system? criticality? differences between target and development environments?

3. Clients' own requirements need to use a particular method

Technical Approach:

1. Selected methodology or process model(s)

2. Development methods

3. Required software tools

4. Target hardware/software environment

Software Process Models:

Waterfall Model

V Model

Spiral Model

Prototyping Model ...

(Fish Model, Evolutionary Model, ...)

Phased Development Model

incremental development model

iterative development model

Operational Specification Model

Transformation Model

5 Conclusion

We need to identify a software process model, as the basic framework of software development, when developing software. The selection of the software process model is related to the efficiency of the software development, the efficiency of the software, and the life of the software. So the software process model is very important. Waterfall model, V model, spiral model, prototype model... The choice of these models is not the more the better, but according to the needs of the development of the type of software to select the appropriate model.