

# Software Project Processes

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## Abstract

The abstract is typically a 'single paragraph'. The abstract is the first thing people read when they encounter your report; hence, it is crucial that it outlines all the important aspects of your document. Make your abstract incredibly concise and clear. You start with the aim and end with why your report is interesting. Briefly explain why your report is valuable and how you have evaluated it. Keep your abstract small. Typically, the abstract should be approximately 100-200 words.

Keywords: software engineering, project management, planning, risk assessment

## 1 Introduction

Software development process is software design idea and method of general process, including the function and implementation of algorithm and method of software design, the general structure design and software module design, programming and debugging, alignment and testing, and write, submit application and a series of operations.

## 2 Related Work

Use prototype model as an example

The main idea of the prototype model:

Borrow existing system as the prototype model, through the "sample" continuous improvement, and makes the final product is needed by users.

Prototype model by offering prototype for user feedback to the user, make the developed software can truly reflect the needs of users. At the same time, the prototype model perfect prototype using stepwise refinement method, enables the prototype to "fast" development, avoid the like waterfall model in the long development process is difficult to make quick response to user feedback. Relative to the waterfall model, prototype model more accord with people's custom of developing software, and is currently the more popular a kind of practical software life cycle model.

## 3 Overview

Several software development approaches have been used since the origin of information technology, in two main categories. Typically an approach or a combination of approaches is chosen by management or a development team.

"Traditional" methodologies such as waterfall that have distinct phases are sometimes known as software development life cycle (SDLC) methodologies

## 4 Methods/Techniques

Demand analysis

1. Preliminary understanding related systems analyst to user needs, and then use the relevant tools software list the major functional modules in the system, to develop each function module what small function module, the demand for some more specifically related to the interface, in this step can be preliminarily defined inside a small amount of interface.[1]
2. The system analyst thorough understanding and analysis of demand, according to their experience and demand with a WORD or related tools to make a document system functional requirements document. This document will clearly outline system of big function module, function module what small function module, and also lists the relevant interface and interface functions.
3. The systems analyst to user confirm the demand again.

The profile design

First of all, developers need to profile software system design, the system design. Profile design need considering the design of software system, including the system of basic processing procedure, system of organization structure, module partition, function distribution, interface design, operation design and data structure design and error handling, etc., provides the basis for software detailed design.

The detailed design

On the basis of general design, developers need to undertake the detailed design of the software system. Described in detailed design, implement the specific modules involved in the main algorithm, data structure, class hierarchy and call relations, need to explain the procedure of software system at all levels of each (each module, or subroutine) design consideration, for coding and testing. Shall guarantee the demand of software fully allocated to the whole software. The detailed design should be detailed enough to code according to the detailed design report.

## **5 Conclusion**

This report can let people know more about General process of software development process of software design thought and method, including the function of the software design and implementation of algorithms and methods

## **References**

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2. 2013-04-26. 'Software engineer project development process 'by Software Engineer Training Institute