What is SPM?

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Software Project Management

Abstract

With the rapid development of information technology, the scale of the software product is becoming more and bigger, the development of individual contribution mill way has not adapted to the needs of the development of more and more. All the software enterprises are actively introducing software project management in development activities, to carry on the effective management of the development.

Introduction

The object of the software project management is a software engineering project. It involves the scope covers the whole process of software engineering. To make the software project development success, the key question is must for software project scope of work, may risk, needed resources (people, hardware/software), to achieve the task, experiences of milestones, spend effort (cost), such as scheduling accomplish know fairly well. Software projects management and other project management compared with considerable particularity. First of all, it is pure knowledge to software product, its development and progress and it is difficult to assess and measure quality, production efficiency is also difficult to predict and guarantee. Secondly, the complexity of software systems has led to various risks in the process of development is difficult to anticipate and control.

History

Software project management is put forward in the United States in the mid - 1970 - s, when the U.S. defense department specializes in software development can't submit, budget overruns and quality cannot meet the users demand, found that 70% of the project because of mismanagement, and nontechnical reasons. So software developers began to gradually pay attention to the management of software development.

Overview

The content of the software project management mainly includes the following several aspects: the organization and management of personnel, software metrics and software project planning, risk management, software quality assurance, software process capability evaluation, software configuration management, etc.

Summary

The fundamental goal of software project management is to make software project, especially large projects throughout the software life cycle, from the whole process of analysis, design, coding, testing, maintenance) can be under the control of managers, at the scheduled cost, on schedule and qualified to complete the software delivery users. Software project management and research in order to from yet the success or failure of the case is summarized to guide future development of general principles, methods, and to avoid previous mistakes.