

# Software Project Management

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## Abstract

properties, because the software is the crystallization of knowledge, has the strict technical requirements, a large software project is by a group of people, even more groups of personnel to the design and implementation, therefore, in the process of software project development requires a certain specification for the developers, and for the development of project management, reasonable software project management not only can grasp the development of software project progress and control the cost of development, but also can maximize reduce the various risks in the process of software project development, at the same time can effectively improve the quality of software project.

## 1 the current situation of the software project management

As technology matures and computer technology in our country and the world, in software project management technology in our country also has a great progress, but China's current project management technology still has some problems. This article mainly from the software project organization management lack of unified standard and a lack of clear software project development plan and the management of software project management ability is limited and so on three aspects.

### 1.1 software project organization management lack of unified standard

Every software development project team is not just one person, but a team of more than a large software projects require

multiple development project team to complete together, during the development of a project has a lot of familiar and unfamiliar people involved, however, every team has its own management specification, so when multiple project team work together when the lack of unified management specification, this will lead to a software project to write is not unified, standard, this certainly will affect the development progress and the quality of software. And just now got a software project, the developer is lazy, always think time is very abundant, will be very relaxed, at the early stage of the development of the late work will be very big, this means that the software project management is lack of reasonable management specification.

### 1.2 the lack of a clear software project development plan

Software project development plan is the basis of the implementation of software project management, and software development indicators, but the mouth of today's software item management the lack of a clear software project development plan, not the progress of the specification in detail, and the division of labor is not clear, lead to some workers, the heavy task can't complete the task on time, but some people are very task too light, will be finished at the beginning of the scheduling task, even lead to some function, and no one is responsible for the design and implementation of the module. And in each order schedule

Period of the development plan of design is not reasonable, the results of the required are not clear, that is lighter in the early stages of the project development task, in the

middle of the development of the time can't continue to develop, on time is still at the beginning of the perfect job, but in the back Phase of the accumulation of a large number of tasks, the last project can't finish it on time.

### 1.3 software project management personnel management ability is limited

Software project managers are generally has a lot of development experience of the staff, but after engaged in management, the lack of the consciousness of self improvement, the ability of software project management can not meet the requirement of the modern development, for example, managers rely on their mastery of the technology and the traditional management tools, but today's software project development requires the use of the latest development technology and the latest version of the development tools, so as to improve the development efficiency and quality. Software project managers failed to understand the progress of the project, therefore, not reasonable design under a progress schedule and task. Further caused the personnel to loose, can't finish the work according to certain specifications and system task, delay the development cycle of software projects.

## **2 the main content of the software project management**

Software project management is not only to the soft project progress, the quality of software project, software configuration, software risk management, etc. At the same time also need to unified management of software project developers, as well as to the The development of software project to evaluate cost and development cycle.

### 2.1 software project progress and quality management

Software project schedule management is to divide the whole software project phase, and to ensure that each stage within the

prescribed period of time to complete the task, and the tasks in each stage to specifically assigned to the individual, if each stage of the task is not completed as scheduled, managers can know is which person's responsibility, who delay the development progress, managers need to real-time control the developer's real progress, in order to arrange for the following stage. Quality management must be strictly in accordance with the specification of the corresponding regulations for management, guarantee the quality of software project development of each part to be able to meet the requirements of customers, this is so that the quality of a software project is higher, can through the acceptance.

### 2.2 the development of software project management

Developers is the most important resource in software development, it is conceivable that manage the developers is very important in software project management. According to the need for developers into several different project teams, if developed in a day or special condition in the process of personal will, can consider to each project team personnel reasonable exchange and change. The management of the developer to from beginning to the end of the project acceptance software development work, reasonable distribution of personnel in the process,

Mobilize personnel, according to the actual circumstances of the project as well as his ability and experience on the developer reasonable staffing, try to use the least amount of resources, the shortest time, develop customer satisfaction at the lowest cost of the software.

### 2.3 the software project risk management

Software project's highest goal is within the scope of budget cost, developed in the

limited time expected design project, but the development of software project there are certain risks, at this time, managers will need for software project risk management, before the project development to do a good job in risk assessment of risk analysis, formulate the corresponding risk coping strategies, reasonable allocation of resources, and to minimize the ill effects of reducing risk, guarantee the project smoothly.

### **3 Conclusion**

Software project management is the important part in the process of software development, software project management is reasonable and the management level directly affects the efficiency and quality of software development, and will even affect the software development cost, software quality is decided by customer satisfaction, as a result, software project management based on customer demand as the core, people-oriented open management, to continuously improve and improve the software project management techniques, only in this way can the development of high efficiency and low cost of customer satisfaction

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