1. Software project risk

Software project developers are concerned about such a problem when they develop the project: what kind of factors will lead to failure of software projects？How the project is affected when the project-related factors are changed? All of these are risk issues that developers need to consider in software project development. The risk of a software project is that the uncertainties that may occur during the software development process cause loss or influence. Such as funding shortages, staff changes, delays in project progress and other issues. If the project risk occurs during the project development period, it may affect project progress, increase project costs, and even cause software projects to fail. Therefore, it is necessary to analyze the project risks and respond to risks to take appropriate measures to minimize the losses caused by the risks.

Software project risk mainly includes the following four categories:

1. Because the development team and customer communication is not clear lead to customer demand is not clear, such a risk may occur in the entire software development project life cycle. Mainly including requirements change risk, process risk and installation and maintenance risks.

2. Because the quality of management is not enough, lack of experience, poor communication and unreasonable distribution of tasks caused by the risk. Mainly including the progress of risk, budget risk, management risk, information security risks.

3. Because to lack of technical strength, lack of development environment tools caused by the risk. Mainly including technical risk, quality risk, software design tool risk, software development tool risk, employee skill risk.

4. Because of the company or the project team internal and external changes in the environment caused by the risk. Mainly including human resources risk, policy risk, market risk, marketing risk.

1. The risk in the project

For the software project in this article, the development team also needs to face the risks mentioned above.

* 1. Requirements change risk

The requirement change risk is that the demand has become the project benchmark, but the demand continues to change; the lack of definition of the requirements, so that further definition will expand the scope of the project; add additional requirements, product definition ambiguous parts need more time than expected; Effective demand change management process.

The way to prevent this risk is the need for team members with a high degree of cooperation and close collaboration, careful allocation of team members' work when conducting requirements analysis. And to effectively curb demand changes, the software needs change is the biggest enemy for the software project development and implementation in the software project at all stages may occur. The later the change in demand, the greater the harm to the project. So the demand for software changes throughout the control and implementation of the various stages of the software. In the demand analysis phase of the user demand changes mainly for the user needs of the repeated, easy to make the needs of the analysis work in situ, cannot be completed according to plan needs analysis.

* 1. Technical risk

In the process of software project development and construction, strategic management technology is a very important factor. The project team must be in line with the actual requirements of the project, choose the right, mature technology, do not ignore the actual situation of the project and use some advanced but not the project must and not familiar with the technology. If the project requires the technical project members do not have enough or not enough, you need to focus on the risk factors. Significant technical risks include: the existence of software architecture system problems, resulting in the completion of the software product failed to achieve the project target; project implementation process with a new technology, due to the existence of defects in the technology or technology in the grasp is not deep enough, resulting in the development of The product performance and poor quality.

The way to prevent this risk is to use the technology necessary for the project, in the technical application before the relevant personnel to carry out good technical training. First of all, do a good job in the technical review of the various stages, through the collective wisdom to ensure that the feasibility of the technology used in the project and the correctness of the technical program. Second, the use of new technologies to be careful, to step by step, as far as possible the use of mature technical solutions to complete the software development work. Third, in the technical innovation and technical risk between the balance, and do a good job of innovative technology research and testing. The need to evaluate the various technologies used in the software project process, software project management in the development of software development plans must consider these factors, and make a reasonable trade-off decision.

* 1. Tool risk

Software project development and implementation process, the necessary management tools, development tools, test tools, etc. can be Timely in place, the tool version is consistent with the project requirements, etc., is the project team need to consider the risk factors. Some software projects are multi-user concurrent application system, the system requirements for high performance, the project team will need to pay attention to the project's performance risk.

The way to prevent this risk is usually to implement the tools at the start-up phase of the tools or possible alternative tools, before the need for the use of these tools (usually need a month or so in advance) to track and implement the tools in place. Before the project development and design and build the system infrastructure and performance testing to ensure that the framework to meet the performance indicators and then follow-up work. And the team's technology is biased towards that tool.