Software Project Management

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Abstract

This article is simple and clearly to show the introduction and history of software project management(SPM). And in this article, there is a big problem for us to think about it: why software project management is so important? Today,software developed so fast, each software project must have the document to record process of planning software and risk of project.So this article will solve this problem.

Keywords: software project management, project planning, risk

1 Introduction

Software Engineering Management can be defined as the application of management activities-planning,coordination, Measuring monitoring, controlling,and reporting-to ensure that the development and maintenance of software is systematic, disciplined and quantified.[1]

Software project Management is a sub-discipline of project management in which software projects are planned, monitored and controlled

A successful software project must has a good planning and a pretty accurately estimation.

There has four elements of project management :

1.People
2.Product
3.Process
4.Project

They are both important for doing project management.And we have to consider these four elements before we start to do the project planning.

2 History

Long years ago, the Great Wall, the Pyramid of Egypt, ancient Rome this immortal great supply canal engineering,those are the example for project management.

The prevailing view that project management is a product after World War II.it is mainly a kind of management methods of reconstruction and the cold war period for national defense construction project created. The development of project management basically can be divided into two stages: before 80, known as the traditional project management stage, after the age of 80 is called modern project management stage.

Before 1980s,the scope of application of project management is still confined to the building, a few areas such as national defense and aerospace.

After 1980s,with the information world coming,and the high technology industry rapid development and become a pillar industry,the characteristics of the project has also a great change.So,some methods of software project management is not suitable now.The manufacturing economy environment, the emphasis is the prediction ability and repetitive activities, the focus of management is to a large extent the manufacturing process is reasonable and standardized.[2]

3 Overview

So software project management is very important in this information world. Some people will ask that:why software project management is so important?If we do not doing project management,it will cause some risk. Every project start before doing planning.So project planning is a part of project management. A project is to solve problem ,so first we must understand this problem accurately.And then we should do some planning for this project . Now so many project should write some documents for how to do this project. Because if this project is interrupted ,another engineer can do it continue.

4.Sample

In 1917, Henry Gantt invented famous Gantt chart, the project manager according to the calendar of production task graphs, for daily work arrangement.

1. in 1957, DuPont will be the critical path method (CPM) equipment application and maintenance, the maintenance downtime by 125 hours dropped to 7 hours.

2.in 1958, in the Polaris missile design, application program evaluation and review technique (PERT), each task relationship model, the design completion time is shortened by 2 years.

3. in the 1960s famous Apollo program, using the network planning technique make the $300 billion dollars, 2 million businesses in, 40 million people to participate in, 700 million parts of a project successfully completed.

4.Motorola is the communications equipment and service providers in the world famous, in 1990s started a project aimed at improving the management ability of the plan

5.ABB international engineering company headquartered in Switzerland, operating in more than 90 countries, most of the work requires the company to implement project management;

5 Conclusion

Software project management become the necessary part in the whole project. I think management is though the whole project.To be a good project ,we should do some management. And we should do suitable management for project.We should consider that how to solve this problem best and how to plan this project.

References

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