

Software Project Management

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Abstract

Software project development is a systematic and complex task, which requires a team co-ordination, division of labor; project management under certain constraints, in order to achieve the project objectives efficiently for the purpose of the project in accordance with the internal law of logic effective planning, organization, coordination and control of system management activities.

Software project management is a cross-disciplinary engineering and project management software, the principles and methods of project management in the field of software engineering applications.

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

Into the 1970s, various projects increasingly complex, increasingly large scale construction projects external environment changes frequently, the application of project management from the traditional military, aerospace gradually Extensional to construction, petrochemical, power, water conservancy and other industries, the project management has become an important tool for the government and big business daily management. Meanwhile, with the rapid development of information technology, the modern project management knowledge and career began to take shape.

3 Overview

Software project management is a scientific management methods, it is to make software project in accordance with a predetermined cost, schedule, quality, successfully completed and cost, personnel, schedule, quality, risk analysis and management activities. The scope of software project management includes not only traditional software development process should also include preparatory work before development and operation and maintenance work on the project summary, it has an extremely important role.

1 Introduction

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

2 History

Generation Project management is generally considered the beginning of the 20th century, 40 years, more typical case is the US military's Manhattan Project to develop the atomic bomb. But until the 1980s, major project management is also limited construction, defense, aerospace and a few other industries. My country and other countries in the world history there are many examples of successful project management. Practice of project management can be traced back to ancient times some of the major infrastructure such as the Egyptian pyramids, canals, bridges, ancient churches in Europe, roads, castles, etc. Construction.

- In 1917, Henry Gantt invented the famous Gantt chart, project managers calendar chart production tasks for the daily work schedule.

- 1957, DuPont critical path method (CPM) application and maintenance of equipment, so that maintenance downtime by the 125 hours dropped to 7 hours.

- 1958, at the Polaris missile design, the application program evaluation and review technique (PERT), the modeled relationship between project tasks will be to complete the design time by two years.

- 60's famous Apollo program, using network planning techniques make this \$ 30 billion dollars, 20 000 enterprises to participate, 40 million people participated in 700 million parts of projects successfully completed.

4 Application

The World Bank each loan as a project management; in the United States, DEO (Department of Energy), DOT (Department of Transportation) and other government departments, when not only their own projects using project management software, and provides participants have to use project management software project management; Motorola is the world's leading communications equipment and service providers, in the 1990s, started a project to improve its project management plan; headquartered in Switzerland's international engineering company ABB, in 90 operating in many countries, most of the work requires companies to implement good project management; governmental United Kingdom, Germany, Canada, France and other countries, and its investment projects require the use of project management software to manage.

4.1 Project Management Knowledge Areas

PMI has suggested 9 Knowledge Areas

1. Project Integration Management
2. Project Scope Management
3. Project Time Management
4. Project Cost Management
5. Project Quality Management
6. Project Human Resource Management
7. Project Communications Management
8. Project Risk Management
9. Project Procurement Management

5 Conclusion

The most important is how an efficient way to organize projects to ensure high efficiency of software development

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References