What is Software Project Management

13211120, Huang Guoan*
Zhejiang Normal University
Software Project Management

Abstract

Software Project Management is a sub-discipline of project management in which software projects are planned, monitored and controlled. Software Project Management is to make software project in accordance with a predetermined cost, schedule, quality, successful and for personnel, product, process and project analysis and management activities. With the development at full speed of the information industry,the size of software produce grows larger than before.

Keywords: software project management, project planning, project monitoring and control

1 Introduction

The objects of the software project management is software projects. Its scope covers the entire software engineering process. For the success of software development, software project scope of work must, risks, resources, tasks, costs, schedules, and so do the planning. This management technique work before they began the process to continue in software from concept to realization, when finally ended when the software engineering process is terminated.

2 Software Project Planning

Purpose of the Project Planning is to identify the scope of the project, estimate the work involved, and create a project schedule.Its begins with requirements that define the software to be developed.The project plan is then developed to describe the tasks that will lead to completion.

The project manager plans and guides the software project

- The project manager is responsible for identifying the users and stakeholders and determining their needs.
- The project manager coordinates the team, ensuring that each task has an appropriate software engineer assigned and that each engineer has sufficient knowledge to perform it.
- To do this well, the project manager must be familiar with every aspect of software engineering

The project manager drives the scope of the project.

- The project manager should identify and talk to the 'main' stakeholder.
- The effective way to show stakeholders that their needs are understood and that those specific needs will be addressed is with a vision and scope document.

3 Software Project Planning

Project Monitoring and Control

- To keep the team and management up to date on the project's progress.
- If the project deviates from the plan, then the project manager can take action to correct the problem.

Project monitoring and control involves status meetings to gather status from the team. When changes need to be made, change control is used to keep the products up to date.

4 Overview

The fundamental purpose of software project management is to make software project whole the software lifecycle (from analysis, design, coding and testing, maintenance of the entire process) can be controlled by managers at a predetermined cost, quality and quantity of completed software.

5 Project Management Knowledge Areas

PMI has suggested 9 Knowledge Areas

- Project Integration Management.
- Project Scope Management.
- Project Time Management.
- Project Cost Management.
- Project Quality Management.
- Project Human Resource Management.
- Project Communications Management.
- Project Risk Management.
- Project Procurement Management.

6 Conclusion

Overview of what Software Project Management is. Explained Project Planning and Project Monitoring and Control

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*e-mail:Software Project Management