

What is SPM?

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Software Project Management

Abstract

The report is about Software Project Management. There are three main parts about "What is SPM?": What is project, What is project management, What is software project management. For the success of the software project development, the key problem is to work on software project scope, may risk, need resources, to achieve the task, experienced a milestone, spend effort, schedule, accomplish know fairly well.

Keywords: software engineering, software project management, risk, schedule

1 Introduction

Software project management a sub-discipline of project management in which software projects are planned, monitored and controlled. The object of project management software is a software engineering project. It covers the entire process of software engineering.

2 Project Plan

Project planning is a start-up phase of a software project into the implementation of the system, mainly including: determine the detailed project implementation scope definition, to submit the results of the work, the assessment of the implementation of the major risk in the process, make project time plan, cost and budget plan, human resources planning. Project planning begins with requirements that define the software to be developed. Its purpose is to identify the

- scope of the project
- estimate the work involved
- create a project schedule

Creating a project schedule is the primary task of project planning. Moreover, project planning is the most important part of software project management. Combined with the methods of estimation and risk analysis, schedule for project managers to set up a perfect plan.

3 Overview

Software project management is to enable software projects can be completed smoothly according to predetermined cost, schedule, quality, analysis and management of the activities of people, products, process and projects.

4 Project Monitoring and Control

For a software development project, it is very important to control the management activities. By the way, Software quality assurance (SQA)

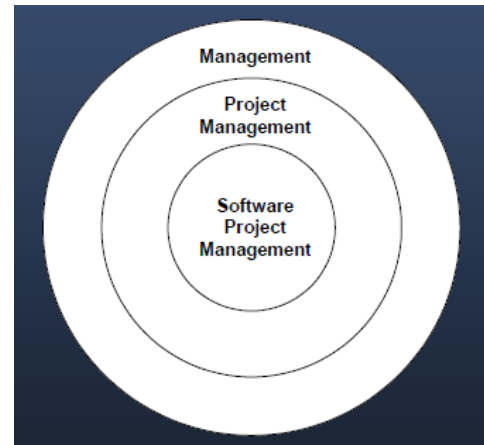


Figure 1: The relationship of management, project management and software project management.

is every step of the activities in the process of software protection. Software configuration management (SCM) is applied to the protective activities throughout the software process, it is a group activity management changes in the software throughout the life cycle. The purpose:

- 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.

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

Software project management is the art and science of planning and leading software projects. It is a sub-discipline of project management in which software projects are planned, implemented, monitored and controlled.

Acknowledgements

I would like to thank my classmates and teachers for taking time out of their valuable schedule to help me finish this report more concise and clearer.

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Software Project Management (2016/17)

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