CHAPTER 7:

CASE STUDIES

Case Studies for Experimentation and Reference

The cyclic development strategy with reviews and verification for high quality design of large scale projects is applied to the following case studies.

Figure 7: Activity Trend Analysis-I
Figure 8: Activity Trend Analysis-II
Figure 8 Activity Distribution Trend
Software Development Strategy with High Quality Design for Large Scale Projects

Figure 9 Phase wise Planned Efforts Review
I. Managing Requirements

- To understand the activities those are essential to managing software requirements
- To identify key issues and decisions involving the management of requirements.
- Eliciting and stating the requirements in large scale projects
- Verifying and validating the requirements for high quality design
- Negotiating and contracting the requirements and project agreements


The software project manager encounters unexpected problems related to decisions made about selecting and involving the project stakeholders when establishing the requirements.

2. Case Study: “On Time, Within Budget, but Wrong”

It presents a “model” project. Everything goes well in the project until the stakeholders who represent the user decide that the finished software is not what is needed or expected.
II. Managing Plans

- To understand the activities those are essential to managing software project plans

- Determining when and why re-planning is needed especially in large scale projects.

1. Case Study: “To Replan or Not to Replan”

It discusses the issue of when and why to adjust the budget, schedule, or staffing plans. Stakeholders in this case study have to decide whether replanning is needed.

2. Case Study: “Managing Plans Is in the Details”

It looks at the details of planning and tracking software projects that share resources with other projects and engineering groups.
III. Managing Process

- To recognize the key issues involved with process management

- To understand the relationship between product and process

- To understand the key factors that influences process from stakeholders’ perspective

- To recognize factors that can significantly improve the development process with minimal cost

1. Case Study: “Bank on the Verge”

The project manager wants the consultants to evaluate whether his team has made good decisions on process for high quality design and whether there are things that the team could do better for such kind of large scale development.

2. Case Study: “Damn the Process, Full Speed Ahead”

In this case study one project manager is asked to review a project with problems that is being run by another project manager to determine what can be done to improve the Large Scale Software Quality and Scalability.

These case studies have been referred to achieve the following outcomes by this improvement:

- To ensure we to design all the required program elements in the large scale projects.

- To verify the overall project structure and flow this improves the efficiency.

- Useful to check the program’s logical constructs for correctness.

- It ensures that the requirements are completely covered by verifying the design.