

Project Management
Suradet Jitprapaikulsarn

Why Project Management?

- Money
- Time
- Quality
- Risk

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What differences?

- Software is intangible
- No standard process
- No software project are the same

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Project Management activities

- Define
- Plan
- Lead
- Monitor
- Complete

Lewin and Rosenau, *Software Project Management: Step by Step*, 2nd Edition, (Marsha D. Lewin Associates, Inc. Los Angeles, CA, 1988), pp. 7-8

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Project Management: Define

- Set project goals
- Define the meaning of “acceptance”
- Questions to be answered
 - What business needs does this project satisfy?
 - What other needs does this project satisfy?
 - How the needs are ranked?

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Project Management: Plan

- Product planning
 - activities to accomplish a task
- Period planning
 - activities during a certain period

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Project Plan

- Work plan
 - Statement of Work (SOW)
 - Work Breakdown Structure (WBS)
 - Budget
 - Schedule
 - Standards
 - Resources
 - Specification

Other plans

- Quality plan
- Validation plan
- Configuration management plan
- Maintenance plan
- Staff development plan

Project Planning

- Assessing constraints
- Estimating project parameters
- Identifying activities, milestones, and deliverables
- Drawing up a plan to guide the development toward the project goals

Milestones and deliverables

- Milestone = recognizable end-point of a software process activity (distinct logical stage in the project)
- Deliverable = project result delivered to the customer

Project Scheduling

- Divide work into separate activities
- Identify activities dependencies
- Estimate time and resources
- Allocate time and resources
- Determine the critical path

Project plan's content

- Introduction
- Project organization
- Risk analysis
- Resource requirements
- Work breakdown
- Project schedule
- Monitoring and reporting mechanism

Project Management: Lead

- Establish baseline and ground rules.
- Communicate what is expected and what is the definition of “good” and “bad”
- Select the team members
- Appoint the lead man

Project Management: Monitor

- Track the progress
 - Overall
 - Technical progress
- Revise the plan

Project Management: Complete

- Formal Acknowledgement
- Final review
