

Needs for Software Process and Case-Study

- ◆ **Specifying a One Week Project**
 - The Business Case
 - The Vision
 - The Plan
 - The Risk Factors
- ◆ **Developing a One Week Project**
- ◆ **Learning form Basic Software Engineering Process**
- ◆ **Specifying the CASE STUDY**

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Problem Statement

The Problem

The problem of gathering consistent data about time spent on various software development activities affects Martin's organization in its ability to monitor a project's progress against estimate, to invoice the customer properly, to pay contractors, and ultimately to more accurately estimate work in future projects.

- ◆ **The main parties involved are:**
 - The individual developers
 - The administrative assistant
 - The project managers

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VISION STATEMENT

Vision Statement

For Martin's organization, a Personal Timing Tool (PTT) that measures time spent and collects and stores this data for later sorting and extraction- unlike "Post-it notes" and wild guesses- would enable Martin to make a systematic, consistent, and effortless assessment of where effort is spent; he could track actual versus estimated resources for a project; and he could do a better job planning for and developing future work.

- ◆ **The use-cases are:**
 - Measure time for an activity
 - Extract weekly time sheets
 - Consolidate data for a project
 - Set up a tool and database for tracking resources devote to a project

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Phase Plan

Monday	Tuesday	Wednesday	Thursday	Friday
Vision Plan	Prototype	Design Code	Design Code Test	
Business case Risk list	Mitigate risks	Test		
Inception Commitment from Martin	Elaboration Martin validates prototype	Construction	Construction Programmer validates software product	
Prototype	Use cases tests	Design Code Test	Improvements Transition: Deliver	

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Risk List

Threats

Development environment

User's environment

Cost constraints

Product technologies

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The Architecture

developer's machine

company server

APPLET

BROWSER

CGI SERVER

DATABASE

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Needs for Software Process and Case-Study

- ◆ Specifying a One Week Project
- ◆ Developing a One Week Project
 - Requirements Revisions
 - Prototype Construction
 - First Run of the Software Product
 - The Beta Version
- ◆ Learning form Basic Software Engineering Process
- ◆ Specifying the CASE STUDY

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Needs for Software Process and Case-Study

- ◆ Specifying a One Week Project
- ◆ Developing a One Week Project
- ◆ Learning form Basic Software Engineering Process
 - Highlights of the Basic Process
 - Features of Team Software Process
 - Characteristics of Large Team Organization
- ◆ Specifying the CASE STUDY

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Needs for Software Process and Case-Study

- ◆ Specifying a One Week Project
- ◆ Developing a One Week Project
- ◆ Learning form Basic Software Engineering Process
- ◆ **Specifying the CASE STUDY**
 - Introduction
 - Overall Description
 - Specific Functional Requirements

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