

Effective Requirements Management

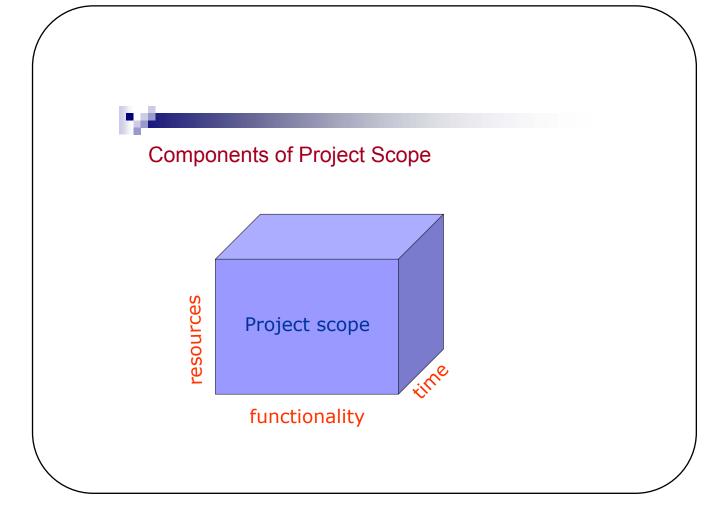
- Team Skill 1 Analyzing the problem
- Team Skill 2 Understanding user needs
- Team Skill 3 Defining the system
- Team Skill 4 Managing scope
- Team Skill 5 Refining the system definition
- Team Skill 6 Building the right system

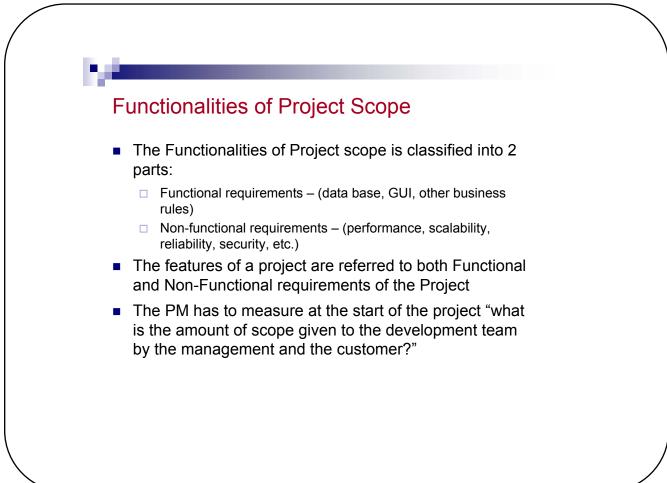
Managing Scope

- The Problem of Project scope
- Establishing Project Scope
- Managing your customer



- What is project scope?
 - a combination of product functionality, project resources, and the time available
- In other words, project scope is a function of
 - The functionality that must be delivered to meet the user's needs
 - □ The resources available to the project
 - □ The time in which to achieve the implementation





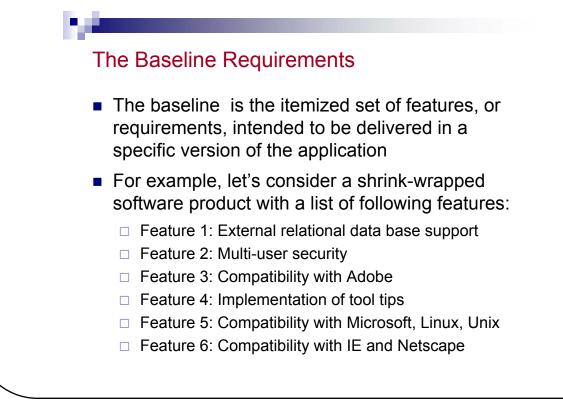
A Few facts of Project Scope

- Brooks law:
 - If the effort required to implement the system features of the project is equal to the resources over the time available, the project has an achievable scope.

 Adding labor to a late software project makes it even later

Establishing Project Scope

- How to establish project scope?
- Listing a high level requirements baseline, an itemized set of features intended to be delivered
- Setting priorities of the features
- Assessing a rough level of effort required for each feature of the baseline
- Estimating the risk for each feature, or probability that implementing it will cause impact on the schedule and the budget
- Reducing the scope





Setting Priorities

- The priority scale is mutually decided by the development team and the customers
 - It may be sometimes decided by voting

Feature	Priority
Feature 2	Critical
Feature 5	Critical
Feature 6	Critical
Feature 1	Important
Feature 3	Useful
Feature 4	Useful

Assessing Effort

- The effort of each feature is decided by the development team
 - It may be sometimes decided by voting
 - It is based on the resources available (the experience of the development team) over the time available

Feature	Priority	Effort
Feature 2	Critical	Medium
Feature 5	Critical	High
Feature 6	Critical	Low
Feature 1	Important	High
Feature 3	Useful	Medium
Feature 4	Useful	Low

Adding the Risk Element			
 It is the probability that the implementation of a feature will cause an adverse impact on the schedule and the budget 			
 The development team establishes risk using the same low-medium- high scale 			
 There is often little correlation among priority, effort and risk 			
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Feature	Priority	Effort	Risk
Feature 2	Critical	Medium	Low
Feature 5	Critical	High	High
Feature 6	Critical	Low	Low
Feature 1	Important	High	Medium
Feature 3	Useful	Medium	Low
Feature 4	Useful	Low	Low

Reducing Scope

 In projects, in order to provide a reasonable probability of success, it will be necessary to reduce the scope by as much as a factor of two

Feature	Priority	Effort	Risk
Feature 2	Critical	Medium	Low
Feature 5	Critical	High	High
Feature 6	Critical	Low	Low

Baseline (Features above this line are committed features)

Feature	Priority	Effort	Risk
Feature 1	Important	High	Medium
Feature 3	Useful	Medium	Low
Feature 4	Useful	Low	Low

A Thumb Rule for Baseline

 A thumb rule to draw the baseline at the critical requirements perhaps one or two important features

Feature	Priority	Effort	Risk
Feature 2	Critical	Medium	Low
Feature 5	Critical	High	High
Feature 6	Critical	Low	Low
Feature 1	Important	High	Medium

Baseline (Features above this line are committed features)

Feature	Priority	Effort	Risk
Feature 3	Useful	Medium	Low
Feature 4	Useful	Low	Low

Managing Your Customer

- It is how the development team actively engage the customers in managing their requirements and their project scope to ensure both the quality and the timeliness of the software outcomes
- Points to remember:
 - Customer who are a part of the process will own the result
 - Getting the job done right means providing enough functionality at the right time to meet the customer's real need

