Get Your Project Off to a Good Start

Solicit, record, monitor and control requirements

The Project Management Institute

International Organization

- Over 300,000 members world-wide
- Presence in 69 countries
- Over 75 Communities of Interest
- Offer several recognized credentials

The Long Island Chapter

- Initiated in1999
- Chartered in 2000
- Over 850 members
- Mission:
 - To advance our Long Island area project management practitioners' skills, by providing a forum for networking, mentoring, training and lessons learned in day-to-day project management activities.



The Foundation

Definitions

- Requirement
- Requirements Management
- Stakeholders

Tools and Techniques

- Roles & Responsibilities
 - Understanding Stakeholders
- Requirements Collection
 - JAD, QFD

Outputs

Requirements Traceability Matrix



What is a Requirement

A documented "need" of what a particular product or service should be or perform.

The features and functions.

- Identifies necessary attributes, capabilities, characteristics or qualities of a product needed for it to have value and utility for a user
- Sets of requirements are used as inputs for the design stages of product development



What is Requirements Management?

- The process of documenting, analyzing, tracing, prioritizing and agreeing on requirements and then, controlling change and communicating to relevant stakeholders.
 - A continuous process throughout a project.



Who are Stakeholders?

- Project stakeholders are those entities within or outside an organization which:
 - Have a vested interest in the successful completion of a project.
 - May have a positive or negative influence in the project completion.

Tools to Manage & Gather Requirements

- Stakeholder Register
- Responsibility Assignment Matrix (RAM)
- Requirements Collection
 - Interviews
 - Focus Groups
 - Facilitated Workshops
 - Creativity Techniques
- Managing Requirements
 - Requirements Management Plan
 - Requirements Traceability Matrix



Stakeholder Analysis

- The process of systematically gathering and analyzing quantitative and qualitative information to determine interests, influence, and expectations of stakeholders, such as:
 - Relevance to their functional area of responsibility
 - Value rating of relative importance related to cost vs. schedule
 - Tolerance for Risk
 - Explicit Acceptance Criteria
- A Stakeholder register is used
 - As a guide to understands how to interact
 - To "Balance" conflicting needs
 - To identify what to communicate to each individual stakeholder



Roles and Responsibilities

Responsibility Assignment Matrix (RAM)

- Shows type of responsibility for groups and/or individuals.
- Graphically links the work to be done to those doing it.

Person Activity	X	Υ	Z
Plan & Control	Α		R
Requirements	R	Α	
Specifications	R	Α	
Design			Α
Fabrication		S	Р
Validation	S		R

P = Participant

A= Accountable

R = Review

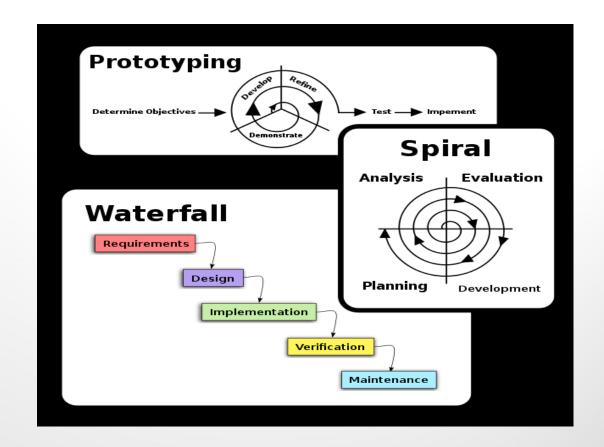
S = Sign-Off





Requirements Collection Methods

- Cyclical:
 - Proto-Typing
 - Spiral
- Waterfall
- Agile





Soliciting Requirements

- Interviews
- Focus groups
- Facilitated workshops where Stakeholders attend sessions to identify cross-functional requirements
- Joint Development Sessions (JAD)
- Quality Function Deployment aka The Voice of the Customer

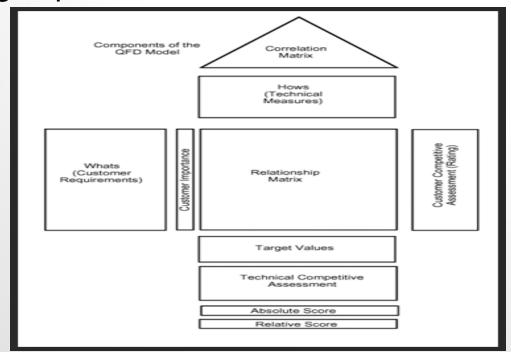


Joint Application Development

- JAD methodology involves the client or end user in the design and development of an application
- Employs a succession of collaborative workshops called JAD sessions

Quality Function Deployment

- Quality must be "designed into" the product, not "inspected in"
- Quality is defined as meeting customer needs and providing superior value



Other Requirements Solicitation Techniques (Elicitation)

- Group creativity techniques
- Questionnaires and Surveys
- Observations
- Prototypes



Requirements Control

- The Requirements Plan
 - Documents the process of how requirements will be analyzed, documented and managed throughout the project:
 - How requirements will be planned, tracked and reported
 - How requirements will be initiated
 - How requirements will be authorized
 - Serves as a guide through the project
 - Serves as a historical record for leverage-ability / reuse



The Agile Approach

- Phases of an Agile Methodology
 - Envision Collaborates to outline the overall vision for the project
 - Speculate Conjectures on possible methods of creating the product that was envisioned
 - Explore Builds the first iteration of the product
 - Adapt Walk through the outcome of the iteration to determine changes – incorporate lessons learned
 - Close Delivers the first product and reviews the overall product

Agile Development Requirements Collection

- Tools used to harvest and record stakeholder needs:
 - User Story
 - Card Feature Statement
 - Conversation Elaboration of needs
 - Confirmation Test cases
 - Task List Backlog of User Stories
 - Story points
 - Velocity
 - Burn-down



Skills You'll Need

- Progressive elaboration
 - The continuous addition of extra material, illustration or clarifying detail that refines and makes initial scope statements more granular
- Active Listening
 - Requires the listener to understand, interpret and evaluate what is heard

Requirements Traceability Matrix

- The Requirements Matrix brings it all together. It:
 - Sevres as a means to track requirements from inception, creation and through customer acceptance
 - Links requirements to their origin and traces them throughout the project life cycle
 - Helps ensure that each requirement adds business value
 - Used to craft Test Scripts as validation of requirement satisfaction

Acceptance

- Formalized acceptance of the project scope by the stakeholders is key
- Facilitated by clear and concise identification of the project's success factors. The project is over when:
 - External customer takes procession
 - Owner takes occupancy
 - Process turned over to operations / maintenance

Panel Discussion

- Ms. Gerri Stepanek VP Professional Development Government
- Mr. Jeffrey Stern Director of Communications IT
- Mr. Tom Caprariello Director Special Events Finance
- Ms. Carol Reynolds Panel Moderator



Additional Information

For additional information visit:

www.pmi.org or

for the Long Island Chapter, visit:

www.pmilic.org