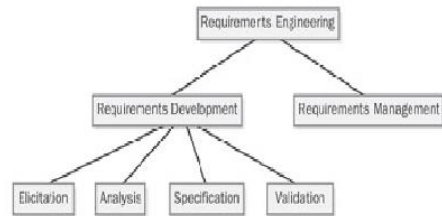


Basis of Software Requirement Engineering

LECTURE # 2

Chapter 1 – Karl Weigers

REQUIREMENT ENGINEERING



REQUIREMENT DEVELOPMENT

- Identify product's user classes
- Eliciting needs from user classes
- Understanding user tasks to achieve business objective
- Analyze information given by users and divide them as different levels of requirements, rules, solutions

REQUIREMENT DEVELOPMENT

- Negotiating implementation priorities
- Understanding quality attributes importance
- Translating user needs into requirement specification document and models
- Reviewing and validating requirements

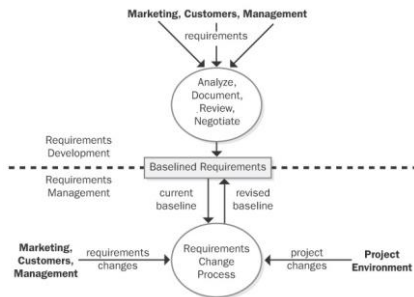
REQUIREMENT MANAGEMENT

- Defining requirement baseline
- Reviewing proposed requirement changes & evaluating the impact of change before approval
- Incorporating the approved requirement changes into the project in a controlled way

REQUIREMENT MANAGEMENT

- Keeping plans current with the requirements
- Tracing individual requirements to their corresponding design, code, test cases
- Tracking requirement status and change activity throughout the project

REQUIREMENT DEVELOPMENT - MANAGEMENT BOUNDARY



REQUIREMENT RISKS

- Insufficient User Involvement
- Creeping user requirements
- Ambiguous requirements
- Gold Plating
- Minimal Specifications
- Overlooked user classes
- Inaccurate Planning

REQUIREMENT PROCESS - BENEFITS

- Reduced Development rework
- Better understanding of user community
- Reduces expectation gap
- Customer loyalty
- Fewer requirement defects
- Fewer unnecessary features

REQUIREMENT PROCESS - BENEFITS

- Reduced scope creep
- Reduced project chaos
- High customer satisfaction
- More accurate system testing estimates

Excellent Requirement - Characteristics

- Complete
- Correct
- Feasible
- Necessary
- Prioritized
- Unambiguous
- Verifiable
- Atomic

Requirement Specification - Characteristics

- Complete
- Consistent
- Modifiable
- Traceable

END OF TOPIC # 2

-COMING UP!!!!!!

**-Business Analysts & Requirement
Engineering Practices**

-Business Requirements

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