

Conclusion: In this way we have studied and drawn class and usecase diagram successfully by using rational rose.

Experiment No: 07

Aim: To design test cases of selected case study

Objective:

After implementing this experiment you will be able to:

1. Learn RMMM plan parameters
2. Learn RIS sheet

Outcome:

1. Ability to create RMMM plan for selected case study.

Theory:

Risk always involves two characteristics:

Uncertainty —the risk may or may not happen; that is, there are no 100% probable risks.

Loss—if the risk becomes a reality, unwanted consequences or losses will occur

When risks are analyzed, it is important to quantify the level of uncertainty and the degree of loss associated with each risk.

To accomplish this, different categories or types of risks are considered.

Project Risks

Technical Risks

Business Risks

Known Risks.

Predictable Risks

Unpredictable Risks

RMMM:

Risk analysis goal For - to assist the project team in developing a strategy for dealing with risk.

An effective strategy must consider three issues:

Risk avoidance or mitigation.

Risk monitoring

Risk management and contingency planning

Proactive approach to risk, avoidance is always the best strategy. This is achieved by developing a plan for risk mitigation.

For example, assume that high staff turnover (i.e. revenue) is noted as a project risk.

RMMM Plan:

The RMMM plan documents all work performed as part of risk analysis and is used by the project manager as part of the overall project plan.

Some software teams do not develop a formal RMMM document. Rather, each risk is documented individually using a risk information sheet (RIS).

RIS is maintained using a database system, so that creation and information entry, priority ordering, searches, and other analysis may be accomplished easily.

Once RMMM has been documented and the project has begun, risk mitigation and monitoring steps commence.

RIS Sheet:

Risk information sheet			
Risk ID: P02-4-32	Date: 5/9/02	Prob: 80%	Impact: high
Description: Only 70 percent of the software components scheduled for reuse will, in fact, be integrated into the application. The remaining functionality will have to be custom developed.			
Refinement/context: Subcondition 1: Certain reusable components were developed by a third party with no knowledge of internal design standards. Subcondition 2: The design standard for component interfaces has not been solidified and may not conform to certain existing reusable components. Subcondition 3: Certain reusable components have been implemented in a language that is not supported on the target environment.			
Mitigation/monitoring: 1. Contact third party to determine conformance with design standards. 2. Press for interface standards completion; consider component structure when deciding on interface protocol. 3. Check to determine number of components in subcondition 3 category; check to determine if language support can be acquired.			
Management/contingency plan/trigger: RE computed to be \$20,200. Allocate this amount within project contingency cost. Develop revised schedule assuming that 18 additional components will have to be custom built; allocate staff accordingly. Trigger: Mitigation steps unproductive as of 7/1/02			
Current status: 5/12/02: Mitigation steps initiated.			
Originator: D. Gagne		Assigned: B. Laster	

Conclusion: In this way we have studied RMMM plan and created for the selected case study.

Reference Books/Material:

1. Object-oriented Modeling and Design with UML by Michael Blaha, James Rumbaugh, Pearson Education Publication, 2nd Edition.
2. The Unified Modeling Language User Guide by Grady Booch, James Rumbaugh, Ivar Jacobson, Pearson Education Publication.