

Jawahar Education Societys Annasaheb Chudaman Patil College of Engineering, Kharghar, Navi Mumbai

Experiment No: 09

● <u>Aim</u>: Preparation of Risk Mitigation, Monitoring, and Management Plan (RMMM).

●<u>Theory</u>:

Project Name: - The QR CODE SCANNER

Risk Management

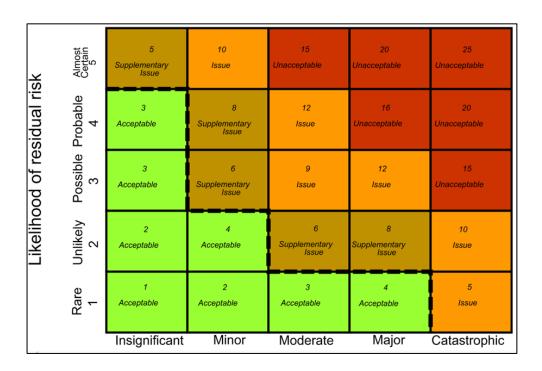
A software project can be concerned with a large variety of risks. In order to be adept to systematically identify the significant risks which might affect a software project, it is essential to classify risks into different classes. The project manager can then check which risks from each class are relevant to the project.

There are three main classifications of risks which can affect a software project:

- Project risks
- Technical risks
- Business risks
- 1. **Project risks**: Project risks concern differ forms of budgetary, schedule, personnel, resource, and customer-related problems. A vital project risk is schedule slippage. Since the software is intangible, it is very tough to monitor and control a software project. It is very tough to control something which cannot be identified. For any manufacturing program, such as the manufacturing of cars, the plan executive can recognize the product taking shape.
- 2. **Technical risks**: Technical risks concern potential method, implementation, interfacing, testing, and maintenance issue. It also consists of an ambiguous specification, incomplete specification, changing specification, technical uncertainty, and technical obsolescence. Most technical risks appear due to the development team's insufficient knowledge about the project.
- 3. **Business risks**: This type of risks contain risks of building an excellent product that no one need, losing budgetary or personnel commitments, etc.



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RMMM Plan:

A risk management technique is usually seen in the software Project plan. This can be divided into Risk Mitigation, Monitoring, and Management Plan (RMMM). In this plan, all works are done as part of risk analysis. As part of the overall project plan project manager generally uses this RMMM plan.

In some software teams, risk is documented with the help of a Risk Information Sheet (RIS). This RIS is controlled by using a database system for easier management of information i.e creation, priority ordering, searching, and other analysis. After documentation of RMMM and start of a project, risk mitigation and monitoring steps will start.

Risk Mitigation:

It is an activity used to avoid problems (Risk Avoidance).

Steps for mitigating the risks as follows.

- Finding out the risk.
- Removing causes that are the reason for risk creation.
- Controlling the corresponding documents from time to time.
- Conducting timely reviews to speed up the work.



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Risk Monitoring:

It is an activity used for project tracking.

It has the following primary objectives as follows

- To check if predicted risks occur or not.
- To ensure proper application of risk aversion steps defined for risk.
- To collect data for future risk analysis.
- To allocate what problems are caused by which risks throughout the project.

Risk Management and planning:

It assumes that the mitigation activity failed and the risk is a reality. This task is done by Project manager when risk becomes reality and causes severe problems. If the project manager effectively uses project mitigation to remove risks successfully then it is easier to manage the risks. This shows that the response that will be taken for each risk by a manager. The main objective of the risk management plan is the risk register. This risk register describes and focuses on the predicted threats to a software project.

Risk Mitigation:

To mitigate this risk, project management must develop a strategy for reducing turnover. The possible steps to be taken are:

- Meet the current staff to determine causes for turnover (e.g., poor working conditions, low pay, competitive job market).
- Mitigate those causes that are under our control before the project starts.
- Once the project commences, assume turnover will occur and develop techniques to ensure continuity when people leave.
- Organize project teams so that information about each development activity is widely dispersed.
- Define documentation standards and establish mechanisms to ensure that documents are developed in a timely manner.
- Assign a backup staff member for every critical technologist.



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Risk Monitoring:

As the project proceeds, risk monitoring activities commence. The project manager monitors factors that may provide an indication of whether the risk is becoming more or less likely. In the case of high staff turnover, the following factors can be monitored:

- General attitude of team members based on project pressures.
- Interpersonal relationships among team members.
- Potential problems with compensation and benefits.
- The availability of jobs within the company and outside it.

Risk Management:

Risk management and contingency planning assumes that mitigation efforts have failed and that the risk has become a reality. Continuing the example, the project is well underway, and a number of people announce that they will be leaving. If the mitigation strategy has been followed, backup is available, information is documented, and knowledge has been dispersed across the team. In addition, the project manager may temporarily refocus resources (and readjust the project schedule) to those functions that are fully staffed, enabling newcomers who must be added to the team to "get up to the speed".

Risk Table

SR NO.	Risk Type	Risk identification	Migration strategies	Severity
01	Constriction	Planning	We build the app within planning	marginal
02	budget	Cost	We create app over budget	marginal
03	Market	Market	We introduce the market level but some level of computation is already available.	negligible
04		Performance	The OR app is performance is faster than	critical



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			another app	
05		Operational	The OR app is	catastrophic
			function is	
			faster than	
			another app	
06	Plan	strategic	We create	marginal
			strategic risk to	
			build app	
07	Time	Schedule Risk	The app is	critical
			build within	
			the given	
			Schedule	
08	Deployment	Logical Risk	The app gives	catastrophic
			as we test and	
			after	
			deployment	
			the client	
09	Feedback	Maintained Risk	After The give	catastrophic
			the valid	
			reason for app	
			we finding in	
			risk	

• <u>Conclusion</u>: - We learned about <u>risk management activities</u> and the <u>RMMM</u> plan in this article. We also infer from this article how project managers do risk management, and the RMMM plan is one of these techniques.