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| Academic Year : 2020-21 | |
| Subject: Software Engineering CLASS:SE (I) SEMESTER: IV | |
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**Title of assignment:** Prepare risk analysis report of your mini project

### **Theory:**

### **Categories Of Risks**

**1) Schedule Risk:**Project schedule get slip when project tasks and schedule release risks are not addressed properly. Schedule risks mainly affect a project and finally on company economy and may lead to project failure.

**Schedules often slip due to the following reasons:**

* Wrong time estimation
* Resources are not tracked properly. All resources like staff, systems, skills of individuals, etc.
* Failure to identify complex functionalities and time required to develop those functionalities.
* Unexpected project scope expansions.

**2) Budget Risk**

* Wrong budget estimation.
* Cost overruns
* Project scope expansion

**3) Operational Risks:**Risks of loss due to improper process implementation failed system or some external events risks. Causes of Operational Risks:

* Failure to address priority conflicts
* Failure to resolve the responsibilities
* Insufficient resources
* No proper subject training
* No resource planning
* No communication in the team.

**4) Technical Risks:**Technical risks generally lead to failure of functionality and performance.  
Causes of Technical Risks are:

* Continuous changing requirements
* No advanced technology available or the existing technology is in the initial stages.
* The product is complex to implement.
* Difficult project modules integration.

**5) Programmatic Risks:**These are the external risks beyond the operational limits. These are all uncertain risks are outside the control of the program. These external events can be:

* Running out of the fund.
* Market development
* Changing customer product strategy and priority
* Government rule changes.

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| **Risk Summary** | **Risk Category** | **Probability** | **Impact (1-4)** | **RMMM** |
| Project scope expansion in Future. | **Budget Risk** | 35% | Negligible | Proper Mangement of Future Expansion and Proper use of Funds. |
| Failure of Proper Working of System. | **Technical Risks** | 5% | Marginal | Upadates and Maintance of System in regular interval of time. |
| Government rule changes related privacy. | **Programmatic Risks** | 10% | Marginal | Advancement in Security and Privacy . |

**Conclusion:** Thus,we have studied the various risk factors present in the project and we have analysed various ways to reduce the risks involved.