

Risk Monitoring, Management and Mitigation Plan

(version 1.0)

Team-5

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1. Parameters:

The two parameters for risk analysis is the impact of the risk on the success of the project and its probability of occurrence. The impact of the risk is expressed on a scale of 5 and its probability of occurrence is expressed as a percentage.

2. Categories of Risks:

The following categories of risk have been identified for the project under consideration:

1. Project Size Risk: Risk associated with the size of the project to be made.
2. Process Risk: Risk associated with the software process defined and as followed by the team.
3. Development Environment Risk: Risk associated with the various developmental tools available and their quality.
4. Schedule Risk: Risk associated with the untimely completion of various goals set during the process of software development.
5. Performance Risk: Uncertainty associated with the functioning of the developed software as per the performance requirements mentioned in the System Requirements Specification.
6. Support Risk: The degree of uncertainty associated with the software not being functional on various platforms.
7. Organizational Risk: Risk associated with lack of support from organizations and institutes where it is going to be deployed.
8. Technical Risk: Risks which identify potential design, implementation, interface, verification and maintenance problems.

3. Risk Analysis

Risk	Category	Mitigation/Contingency Plan
Zimbra withdraws support for REST APIs	Process Risk	Use of alternatives such as pop3 and imap
Virus attack and bugs associated with open source software	Development Environment Risk	Use of alternative or substitute software.
Delay due to external deliverables such as access to gateway, problems with staffing	Schedule Risk	A leeway can be maintained and external deliverables can be obtained in advance. Having more than one person play the same role can reduce critical staffing shortages.
Delay in SMS delivery	Performance Risk	Polling algorithm could be improved if such a problem is encountered. Use services of a better SMS gateway vendor.
Software compatibility on various platforms and Operating systems	Support Risk	The application under consideration faces no such risk and client side can run on all operating systems.
Maintenance problem	Technical Risk	A well commented code could help a non-developer maintain the system with little effort.

4. References

1. Lecture Slides (Lecture delivered on 10th March, 2011) by Prof. Asim Banerjee, DA-IICT.
2. Software Engineering-A Practitioner's Approach by Roger S. Pressman(Ed. 5, Chapter 6-'Risk Management and Analysis')