

Generic Project Risk List

ID	Current Status	Risk Impact	Prob. of occurrence	Risk Map	Risk Description	Project Impact	Risk Area	Symptoms	Triggers	Risk Response Strategy	Response Strategy	Contingency Plan
1	Closed	Medium	Low	Green	Scope is poorly defined	Time required to complete may overflow available time	Schedule Project resources	Poor requirements	Requirements found not make viable project	Avoidance then contingency	Through initial requirement assessments	Redesign appropriate parts of project
2	Open	Medium	Low	Green	Scope creep inflates scope	Time required to complete may overflow available time	Schedule Project resources	Poor requirements	Member proposes scope increase	Avoidance then contingency	Through initial requirement assessments	Scope changes must be agreed on by all members
3	Open	Medium	Medium	Yellow	Estimates for milestones are inaccurate	Time required to complete may overflow available time	Schedule Project resources	Estimated to fail to meet project deadline	Failure to meet project milestone	Avoidance then contingency	Iterative review on expectations to increase accuracy	Overtime or reassessing target milestones
5	Closed	Medium	Medium	Yellow	Finish project too early	Poor allocation of estimations, Project lacks "Substantial challenge" requirement	Schedule Project resources	Not enough work to do in project	Plan shows project will finish early	Contingency	N/A	Add additional features
6	Closed	High	Low	Yellow	Team member conflict	Failure to complete project milestones or non productive team member misses milestones	Schedule Project resources	Poor team member interpersonal skills	Team member officially complains	Avoidance then contingency	Ensure initial healthy team dynamic	Mediation, Team Charter resolution mechanisms
7	Closed	Medium	Low	Green	Poor team dynamics	Disagreements lead to loss of productive work on project	Schedule Project resources	Poor team member interpersonal skills	Team member officially complains	Avoidance then contingency	Ensure initial healthy team dynamic	Mediation
8	Open	High	Low	Yellow	Member is unavailable	Project work may overload remaining member, milestones required to be redesigned	Schedule Project resources	Team member expects to be unavailable	Team member is unavailable	Contingency	N/A	Member catch up or reassess milestones

9	Open	High	Low	Yellow	Member is lost	All project work will burden remaining member	Schedule Project resources	Team member expects to be lost	Team member is lost	Contingency	N/A	Reassess requirements and milestones
10	Closed	Medium	Low	Green	Architecture is not fit for purpose	Extra time required to re-architect the project	Feasibility Schedule Project resources	Extra design required during implementation phase	Recurring ad hoc resign during implementation	Avoidance then contingency	Through initial design	Redesign project
11	Closed	Low	Low	Green	Technology components aren't scalable	Final product may have limited use cases by users	Feasibility Schedule Project resources	Overhead of algorithm expected to limit number of nodes	Overhead of algorithm limiting number of nodes	Avoidance then acceptance	Through initial design	Reassess requirements
12	Open	High	Low	Yellow	Technology components have security vulnerabilities	Time taken to fix issues may extend project milestones	Feasibility Security Schedule Project resources	Security vulnerability suspected	Security vulnerability confirmed	Avoidance then contingency	Through initial design	Resolve security issues
13	Closed	High	Low	Yellow	Base technology not mature	Extra time required to re-architect the project	Feasibility Schedule Project resources	Projection of issues during implementation	Issues during implementation	Avoidance then contingency	Through initial design basing on known suspected tech	Redesign will alternative technology
14	Open	High	High	Red	Code quality issues	Project not fit for release at final milestone, extra time required to resolve issues	Schedule Reliability Project resources	Code quality semi regularly fails checks	Code quality regularly failing checks	Avoidance then contingency	Through initial thorough design and test driven development	Perform additional quality checks
15	Open	Low	Medium	Green	User acceptance failure	No uptake by community of final product	N/A	Initial user interest is low	User interest is low	Acceptance	N/A	N/A
16	Open	Low	Low	Green	Users have inaccurate expectations	No uptake by community of final product	N/A	Initial user interest is low	User interest is low	Acceptance	N/A	N/A

Project Specific Risk List

ID	Current Status	Risk Impact	Prob. of occurrence	Risk Map	Risk Description	Project Impact	Risk Area	Symptoms	Triggers	Risk Response Strategy	Response Strategy	Contingency Plan
1	Closed	High	Low	Yellow	Bug found in consensus algorithm	Additional time required to resolve	Schedule Project resources	Bug suspected in algorithm, algorithm is unproven	Bug found in consensus algorithm	Avoidance	Basing on proven consensus algorithm	Redesign, implementing different consensus algorithm
2	Closed	High	Low	Yellow	Project isn't feasible in general	Fatal impact to project	Project	Not finding any successful implementation	Confirming project is theoretical or no successful implementation exist	Avoidance	Confirmed other implementation of library successful and project is practically possible	Shutdown project
3	Open	High	High	Red	Poor software quality	Additional time required to resolve	Schedule Project resources	Projection of issues during implementation	Issues during implementation	Avoidance then contingency	Focus on code quality (unit testing, TDD, code review, pair programming)	Perform additional quality checks
4	Closed	High	High	Red	Networking library issues	Additional time required to resolve	Schedule Project resources	Projection of issues during implementation	Issues during implementation	Avoidance then contingency	Through initial thorough design and TCD and focus on code quality	Redesign networking library
5	Open	High	High	Red	Security too complex	Additional time required to resolve	Schedule Project resources	Projection of issues during implementation	Issues during implementation	Avoidance then contingency	Early completion in project, code designed to support later addition if required	Resign network security
6	Open	High	Medium	Red	Prototype failure	Additional time required to resolve	Schedule Project resources	Estimated to fail to meet project deadline	Failure to meet project milestone	Avoidance then contingency	Initial design, accurate time estimation of milestones, TCD	Overtime or reassessing target milestones

7	Closed	High	Low	Yellow	Tech stack not compatible	Additional time required to resolve	Schedule Project resources	Projection of issues during implementation	Issues during implementation	Avoidance	TCD	Redesign required components
8	Closed	Low	Low	Green	Logging library of project too hard to implement	Additional time required to resolve	Schedule Project resources	Projection of issues during implementation	Issues during implementation	Avoidance then contingency	Prototype completed to confirm difficult of usage	Additional time required to implement or deciding on alternative library
9	Closed	Medium	Low	Green	Project library is too difficult to implement	Additional time required to improve usability	Schedule Project resources	Projection of issues during implementation	Issues during implementation	Avoidance	Focussing design of library interface on usability	Redesign project to focus on usability
10	Closed	Medium	Medium	Yellow	Software introduces unreasonable additional surface area for failure	Additional time required to resolve	Schedule Project resources	Projection of issues during implementation	Issues during implementation	Avoidance	Focusing on code quality and minimal design	Perform additional quality checks
11	Closed	Medium	Low	Green	Consensus algorithm add unreasonable overhead for timely response	Additional time required to resolve	Schedule Project resources	Projection of issues during implementation	Issues during implementation	Mitigation	Basing design on algorithm with provable consensus speed	Redesign required components
12	Open	High	High	Red	Multithreading introduces high level of difficult in troubleshooting	Additional time required to resolve	Schedule Project resources	Projection of issues during implementation	Issues during implementation	Avoidance then contingency	Team members sufficiently skilled at debugging at this level	Additional time required to resolve issues
13	Closed	High	Medium	Red	Network level security issues related to usage of UDP	Additional time required to resolve	Schedule Project resources	Projection of issues during implementation	Issues during implementation	Avoidance then contingency	Designing to avoid UDP reflection issues	Additional time required to resolve issues