

RiskCategory	Risks
Software	Software Requirement Faults
Software	Developed wrong software functions
Software	High Complexity of the Software Architecture
Software	Lack of the tools in software for developing the client requirement
Software	Gold plating of the software
Software	Hardware or supporting software is inadequate to satisfy client requirements
Software	Shortfalls in externally furnished components
Software	Software Requirement ambiguity
Software	Software Requirement changes
Software	Incomplete software requirements
Software	Change in organizational management during the time period of the software project being in the construction phase.
Software	Software need to be highly reliable and flexible
Software	high reliability is required in the software to be developed
Software	Software database size and complexity is large
Software	Software project complexity is high
Software	Software project documentation quality is poor
Software	Reusability required in the software
Software	Documentation is out of sync with the project's requirements and the project itself
Software	misalignment of documentation to the project requirement and project itself
Software	Documentation is not aligned with project requirements or the project itself
Software	Software project outsourcing or a component of a software project outsourcing
Software	Outsourcing of project or some feature of project
Software	Outsourcing of the project or a part of software project
Software	Outsourcing of software project or some feature of software project

Software	Offsite software project development
Software	Multisite Development (communication difficulties, coordination barriers, and language and cultural differences)
Software	Software development team working from home for software project development
Software	Often change in the requirements of the software system
Software	Users providing unclear description of the software requirement
Software	Project managers or business development officers are unable to communicate the specifications to software developers in a simple and concise manner
Software	Specifications are not explicitly communicated to software developers by project managers or business development officers
Software	Project managers or business development officers are not able to explain the requirements clearly to the software developers
Software	Users have a hazy overview of the software's requirements
Software	Users have not clearly stated the software requirements in a clear and concise manner
Software	program specifications have not been specified explicitly and succinctly by the users
Software	program specifications have not been specified explicitly and concisely by users
Software	Developer misunderstanding the customer's requirements or needs
Software	Customer's expectations or desires are misunderstood by the developer
Software	Customer's requirements or expectations are not understood by the developer
Software	Customer's expectations or desires are misunderstood by the developer
Software	Lack of communication between the customers and developers regarding the requirements
Software	There is a lack of coordination between consumers and developers when it comes to software requirements
Software	Customers and developers aren't communicating adequate regarding the software requirements
Software	Lack of interaction between the customers and developers regarding the requirements

Software	software architecture that needs to be developed has a high degree of complexity
Software	The software architecture to be developed has a high degree of complexity
Software	Complexity level of the software architecture to develop is high
Software	Size of the software development project is large
Software	The software project to be developed is very big
Software	software development project has a significant size
Software	software development project is broad in scale
Software	technology needed for the software project has a steep learning curve
Software	Steep learning curve for the technology required for the software project
Software	needed technology for the software project has a steep learning curve
Software	software project's technology stack has a steep learning curve
Software	software development phase, there are regular technical updates or improvements
Software	changes in the software development phase or regular technical updates
Software	frequent technological upgrades or changes in the software development process
Software	Software requires sophisticated learning which is incomprehensible
Software	In order to use the software sophisticated extra training needs to be provided to the software users
Software	Improper practicing of software development methodologies
Software	Inappropriate software development methodologies being practiced for the software development
Software	Software development process selected for the software project is not suitable for it
Software	Lack of proper implementation of software development processes
Software	Lack of appropriate tools to assist in the development of the software
Software	All information not included in the software requirement document
Software	Frequent change in the client need
Software	Changing clients needs
Software	Inaccurate or incomplete information about the project's finances and assets
Software	Incomplete or wrong information relating to the software project resources

Software	Knowledge about project capital that is incomplete or incorrect
Software	Details about the project's finances and properties are inaccurate or incomplete.
Software	Project results not formally acknowledged by the project manager
Software	software project progress is not properly monitored
Software	project manager has not officially accepted the project performance
Software	New project is assigned to the team members before finishing the current one
Software	Before the current project is completed, a new one is allocated to the team members
Software	Before the team members finish the current project, a new one is assigned to them
Software	Computer specifications change often and dramatically
Software	Changes in software specifications are common and wide
Software	Procedures for identifying evolving criteria of software requirement is lacking
Software	Frequent and wide-reachable change in software requirements
Software	There are no protocols in place to define evolving specifications
Software	Procedures for identifying evolving criteria in the software project is lacking
Software	There aren't any protocols in place to define how specifications change in software project
Software	Lack of procedures for defining the changing software requirements
Software	There is a lack of agreement on payment information based on the assessment of actual efforts required
Software	There is a lack of agreement on payment information based on the assessment of actual efforts required
Software	Agreeing on details of payments based on the evaluation of real efforts needed is missing
Software	practice of developing of the prototype and estimation based on it is missing
Software	practice of developing of the project prototype and estimation based on it is missing

Software	Misaligned software project documents with real software project specifications
Software	Misalignment of software project documents with real software project specifications
Software	documentation for a software project isn't consistent with the specifications for the project
Software	Software project documentation misaligned with the actual software project requirements
Software	significant portion of the software project is outsourced to other firms
Software	A large portion of the software project is being outsourced to other firms
Software	significant portion of the software project is being subcontracted to others
Software	Large chunk of software project portion being outsourced to other companies
Software	Major component of the software project is outsourced to other companies.
Software	development of software projects takes place in a variety of locations around the world
Software	Software project development is done at various locations around the world by different peoples
Software	Software project development is done in multiple locations around the globe
Software	complexity of the software project is excessive
Software	Software project size is too large
Software	Clients would not negotiate or compromise in their requirements.
Software	Software projects require massive upgrades in the system.
Software	Unprofessional client or client behaviour
Software	Software project requirements are out of reach of employees.
Software	Software development team developed incorrect software functionality
Software	Framework or tools used for the software project restrict certain client requirements.
Software	scope of the software project is excessively broad
Software	scope of the software project is excessive
Software	Developers or team members go above and beyond to provide additional features to customers

Software	Developers or team members put extra effort to deliver extra feature to the clients
Software	Client requirement about the software project has inexactness
Software	Software development is extremely delicate and necessitates a higher level of precision, accuracy, and performance
Software	Software is extremely sensitive and requires higher degree of precision, accuracy and efficiency during its development
Software	Software required readable, scalable, dynamic and efficient code
Software	Software required code that was readable, portable, interactive, and effective
Software	Readable, scalable, dynamic, and efficient code was needed for software
Software	Software needed to be readable, scalable, interactive, and effective
Software	Software databases need to handle a large number of daily transactions and a large number of users.
Software	Software databases must be able to manage a large number of regular transactions and users
Software	large number of regular transactions and users are required of software databases
Software	Software databases must be able to manage a large number of regular transactions as well as users
Software	Software project scope variations is high
Software	complexity of software projects varies a lot
Software	There is a lot of variance in the variety of software projects
Software	product is released to the market but the users are resistant to change, or there is conflict between users
Software	Software lacks end user engagement
Software	Stakeholder expectations are not address during software development
Software	Poor quality code in software project
Software	product is released to the market, but consumers are resistant to improvement, or there is user dispute
Software	Product is released to the merchandise, but consumers are resistant to reform, or there is a customer dispute
Software	End-user engagement is lacking in software

Software	End-user interaction is lacking in software development
Software	In a software project, the code is of poor quality
Human	Inadequate Knowledge/Skills in employees
Human	Inadequate project management competence in employee
Human	Personality conflicts among employees
Human	Unrealistic estimation of required human resource for the software project
Human	Lack of knowledge about subject domain in the employee
Human	Lack of professionalism and dedication in employee
Human	Lack of motivation for the employee
Human	Employee has inadequate project experience
Human	Inadequate customer involvement in the software project development
Human	Insufficient responsibilities allocation to team members
Human	Lack of cooperation between software development team and the management
Human	Lack of cooperation between team members
Human	Improper testing done by the quality assurance team affected the software
Human	Bad Code by the developer
Human	Developer's code was riddled with flaws
Human	Code written by developer was full of bugs
Human	Developer wrote some bad code
Human	Human didn't properly validated and checked program prototype
Human	Program project's evaluation and testing was inadequate
Human	Poor validation and verification of software project
Human	Employee have bad experience at company or with the project
Human	Employees also had a negative encounter with the business or the project
Human	Unsatisfactory work interface for the employees
Human	Bad employee experience
Human	Human resources for the tech project are not skilled
Human	Human resources for the tech project are insufficient
Human	Inadequate human resource for the software project

Human	Shortage of personnel
Human	Staffing shortages
Human	Manpower shortages
Human	Personnel shortfalls
Human	Customer-employee contact is minimal
Human	Customer interaction with employee is reduced
Human	Less involvement of customer with employee
Human	User's or customer's lack of contribution to the project
Human	User's or customer's lack of engagement
Human	User or customer contribution to the project is insufficient
Human	User's or customer's lack of dedication to the project
Human	Bad commitment of the user or customer
Human	Bad commitment of the management team to the customer or the clients
Human	Unreasonable customers
Human	Unreasonable customers and their unreasonable involvement
Human	Lack of experienced project managers
Human	Project manager's lacking experience
Human	Project employee have insufficient testing abilities
Human	Employee lacking adequate testing skills
Human	It turns out that test case design and unit-level testing are extremely varying
Human	Test case design and unit-level testing turns out to be varying
Human	Business analyst is not qualified
Human	Business analyst lacks adequate skill and knowledge
Human	Business analyst lacks skill
Human	Business analyst is not that capable
Human	programmer capability is inadequate and lacks expertise
Human	programmer lacks the necessary capabilities and skills for the project
Human	programmer lacks necessary capability and skills
Human	Personnel are not giving continuity in the same company for longer time

Human	Personnel do not stay in the same organization for an extended period of time
Human	Personnel continuity to the project is lacking
Human	Human resource lacks experience the experience of completing similar projects
Human	Human resources are lacking in comparable project completion expertise
Human	Human resources do not have the necessary skills to complete similar projects
Human	Employees have no prior experience working with the platform or system offered.
Human	Employee is unfamiliar with the platform or system that has been provided
Human	Employee lacks the experience of working with the provided platform or framework
Human	Employee does not have the requisite experience with the project's programming language and tool
Human	Employee does not have sufficient experience with the project's programming language and tool
Human	Employee lacks the necessary experience with respective programming language and tool to be used in the project
Human	Employee lacking language and tools experience
Human	Software team members experience with the technology to be used in the project is inadequate
Human	Members of the software team have limited academic knowledge and experience
Human	Academic knowledge and experience of the software team members are limited
Human	Lower academic qualification of the team members in the software development team
Human	Software development team's members have a lower academic qualification
Human	Software team members academic knowledge and background is weak
Human	A extra human employee is needed for the operation or use of the developed software project
Human	For its function or use, the established software project necessitated the hiring of an additional human employee.

Human	for the software project to run smoothly, extra human resources is needed
Human	Additional human resource involvement is needed for the operation of software project
Human	Developed software project required extra human employee for its operation or use
Human	User specifications for software projects are in conflict with themselves
Human	software project user has contradiction among themselves in user requirements
Human	Conflict between the system user on matters related to the software project
Human	system users are pessimistic about the software project's success
Human	software project is being viewed negatively by system users
Human	software project has a negative reputation among system users
Human	system user have a negative attitude toward the software project
Human	User of the system does not make any pledges to the project
Human	System user does not make pledges to the project
Human	User of the system does not make any pledges to the project
Human	Users of the system are refusing to cooperate with the software project due to a lack of cooperation from user
Human	Users of the software application are not cooperating with the project
Human	Lack of software application users support in ensuring the project's progress
Human	Lack of cooperation from the system users regarding the project success
Human	Work overload to the employees
Human	Employees are overloaded with the work pressure
Human	Project being carried out by the team members who have not yet worked in the similar projects
Human	The project team members have not taken part in the software requirement elicitation
Human	The project team members have not taken part in the planning of software project
Human	Plan is not assessed and verified by the software development team
Human	Plan is not assessed and verified by the team members participating in software project planning

Human	Important members of the project being excluded from the project.
Human	Core team member leaving the project in between
Human	Assessment carrying about the necessary time for additional training to the employee is lacking
Human	Defining or conducting the training program that are narrowly connected to the project
Human	Lack of frequent training to the employees
Human	Shortage of technically skilled staff
Human	Lacking use of experience and logic in carrying out superpositions relating to requirements
Human	Decrease of the team members motivation
Human	Improper resources allocation to the employee in the project
Human	Organizing the team bonding and recreational activity sessions is lacking
Human	Frequent job rotation among the team members
Human	filing adequate documentation on the work of every individual
Human	Human resource deficiency
Human	Human Resource incapability
Human	Not able to find appropriate human resource
Human	Skilled human resource being too much costly for project
Human	Manpower deficiency
Human	Manpower incapability
Human	Not able to find appropriate Manpower
Human	Software Developer deficiency
Human	Software Developer incapability
Human	Not able to find appropriate Software Developer
Human	Quality Software professionals deficiency
Human	Software Professionals incapability
Human	Not able to find appropriate or quality Software Professionals
Human	Quality Project managers deficiency
Human	Project managers incapability
Human	Not able to find appropriate Project managers

Human	Quality Business Development Officers deficiency
Human	Business Development Officer Incapability
Human	Not able to find appropriate Business Development Officers
Human	Lack of discipline in software developers
Human	Lack of discipline in employees
Human	Lack of discipline in project managers
Human	software development team have not assessed or verified the project plan
Human	Members of the team rotate jobs frequently
Human	hard to organize team building and outdoor activity sessions for the employees
Human	In carrying out superposition relating to specifications, knowledge and reasoning are not given more emphasize
Human	Incompetence team member
Schedule	Requirement Faults impact project schedule
Schedule	Plan schedules are impacted by requirement flaws
Schedule	Requirement flaws have an effect on the project's timeline
Schedule	Budget is insufficient to complete the project on time
Schedule	Inadequate budget for project completion on time
Schedule	Insufficient funds to complete the project on time
Schedule	Inadequate budget for project completion as per project schedule
Schedule	timetable for the project was generated incorrectly
Schedule	timeline for the project was created based on faulty calculations
Schedule	project timeline was created based on erroneous assumptions
Schedule	timeframe for the project was wrongly calculated
Schedule	timeframe for the project was estimated wrong
Schedule	software project's schedule was improperly estimated
Schedule	project's timetable was wrongly calculated
Schedule	project timeline was estimated incorrectly
Schedule	Estimation of the project schedule that is inaccurate
Schedule	Inaccurate estimation of the project schedule
Schedule	deficiency of statistical information on software project timelines

Schedule	scarcity of historical evidence on the timeliness of software development projects
Schedule	There is a scarcity of historical data on software project schedules
Schedule	Lack of historical data about software project schedule
Schedule	Employees' lack of enthusiasm for the project due to a hectic schedule
Schedule	Owing to the hectic project schedule, employees are not motivated to work on the project
Schedule	Owing to the congested project plan, employees are lacking in enthusiasm
Schedule	Lack of motivation in employee about the project due to hectic project schedule
Schedule	To reach the project's deadline, the team's and leadership skills were lacking
Schedule	To reach the project deadline, there were insufficient team and teamwork skills
Schedule	To meet the project development's goal, the team's and leadership skills were lacking
Schedule	Inability to reach project deadlines due to a lack of communication and collaboration skills
Schedule	Poor team and team work skills to meet the project schedule
Schedule	Schedule for growth that is unrealistic
Schedule	Creation timetable that is unrealistic
Schedule	Unrealistic timetable for progress
Schedule	Unrealistic development schedule
Schedule	Deadline for the completion of the project makes very little sense, for example, if the project's completion time is expected to be too short
Schedule	Project completion time limit is illogical, for example, the project completion time is estimated to be too short
Schedule	Project completion time limit does not make sense, for example, the project completion time is expected to be too short
Schedule	Time limit for the completion of the project does not make sense ,such as too little time is estimated
Schedule	Project time estimation error
Schedule	Insufficient time period for one or more phases
Schedule	Schedule change as agreed with clients

Schedule	Identification of parallel tasks
Schedule	Identification of resources which are temporary available
Schedule	Incomplete or wrong information relating to the project schedule
Schedule	Error in project time estimation
Schedule	Error in project scheduling
Schedule	Error in project timeline calculation
Schedule	Error in project time estimation
Schedule	Identification of fields which can be automated was not which affected the project schedule
Schedule	project timeline was hampered by the failure to identify fields that could be automated
Schedule	project timeline was hindered by a lack of identification of fields that could be automated
Schedule	project schedule was affected by the failing to address activities that could be automated
Schedule	Owing to a failure to fix tasks that could be automated, the project plan was impacted
Schedule	Since tasks that could be automated were not addressed, the project's timetable was harmed
Schedule	Due to an inability to address tasks that could be streamlined, the project's schedule was impacted
Schedule	Poor team management lead to poor project scheduling
Schedule	Bad project scheduling is a result of poor team management
Schedule	Project schedule preparation is hampered by poor team management
Schedule	Plan scheduling is hampered by terrible team coordination
Schedule	Poor project scheduling is a result of bad team management
Schedule	For project team members, there is a lack of leisure opportunities
Schedule	project team member's lack of leisure activities
Schedule	Lack of recreational activities for the project team member
Schedule	There are just not enough social activities for project team to foster team bonding

Schedule	There aren't enough recreational opportunities for project team members to strengthen their bonds
Schedule	Poor project schedule management
Schedule	Project schedule management that isn't up to standard
Schedule	Schedule management that isn't compatible
Schedule	Inexperience project manager and company management
Schedule	Project manager and key management with no prior experience
Schedule	Plan manager and business management inexperience
Schedule	Project managers and business executives with no experience
Schedule	Inexperienced project managers and executives are in charge of the business
Schedule	Schedule is not suitable to complete the software project in time and with the existing manpower
Schedule	Project schedule is wrongly estimated
Schedule	project's timeline is incorrectly calculated
Schedule	project timeline is incorrectly calculated
Schedule	Timetable for the project has been miscalculated
Schedule	project's timeline is incorrectly calculated
Schedule	Project schedule or time estimation process was biased
Schedule	Team members of the project are not capable of completing the project within a small time or within a small schedule.
Schedule	project's team members are incapable of finishing the project in a short period of time or on a tight timetable
Schedule	Project team lacks the necessary skills to complete the project in a short time or on a tight timeline
Schedule	project's team members are unable to complete the project in a short period of time
Schedule	development's team members are not skilled enough to finish the project in a short period of time or on a tight timetable
Schedule	Project team members are unable to complete the project in a short period of time or on a tight timeline
Schedule	project timeline has been affected by a change in requirement
Schedule	Frequent change in the requirement has badly affected project schedule

Schedule	project schedule has been severely affected by frequent requisition changes
Schedule	project's schedule has been severely harmed by recurrent requirement changes
Schedule	Change in requirement has impacted the project schedule
Schedule	Uncertain software requirements had an effect on the project's projected timeline
Schedule	projected project timeline was impacted by an unexplained software requirement
Schedule	Unclear software requirement affected estimated project schedule
Schedule	Lack of historical data on project schedule and completion details
Schedule	Lack of historical data on project schedule and completion details for accurate scheduling of the project
Schedule	For accurate project scheduling, there is a lack of historical data on project schedule and completion information
Schedule	For reliable project scheduling, there is a shortage of historical information about similar projects and completion information
Schedule	projected project timeline was impacted by an unexplained software requirement
Schedule	Lack of enthusiasm in employee to complete the project as per the set schedule
Schedule	Employees are lacking in motivation to finish the project on time
Schedule	Team members lack the confidence to finish the project on time
Schedule	Developers lack of desire to deliver the work on time
Schedule	Scheduled estimation for the project is wrong
Schedule	project's scheduled prediction is incorrect
Schedule	development's schedule is estimated wrongly to fulfill the stated project requirements on time
Schedule	project's budget estimate is incorrect to meet the project schedule
Schedule	New work or task that needs to be done for the project completion is identified late
Schedule	Tasks that must be completed for the project's completion are identified and listed lately

Schedule	Late in the development, additional tasks that must be completed were found
Schedule	Project managers and executives lack professional project team management skills
Schedule	Project managers and executives lack the ability to lead professional project teams
Schedule	Project managers and directors lack the required project team management skills causing effect on the project schedule
Schedule	Project managers and executives lack detailed planning about the software project
Schedule	Lack of competent project team management skill in project managers and directors
Schedule	Lack of project management skill, knowledge and ability to use useful tools for proper project schedule estimation
Schedule	team is new, and the organization is a startup with inexperienced founders
Schedule	Teams members are novice and the company is a startup with inexperienced company owners
Schedule	Employees are inexperienced because the company is fresh
Schedule	business is fresh, and the employees are novice
Schedule	Company is new and employee are inexperienced
Schedule	Company lacks well experienced professionals, and the organization is also in its early stages with inexperienced owners or owners with different background other than information technology
Schedule	team is inexperienced, and the organization is new, with inexperienced owners or owners with backgrounds other than information technology
Schedule	Business analysts fail to predict the amount of time required, resulting in a project timeline that is impractical
Schedule	Business analysts struggle to estimate the amount of time needed, resulting in an unrealistic project schedule
Schedule	Project managers have a hard time estimating the amount of time required, resulting in a project timetable that is impractical
Schedule	Project managers may find it difficult to estimate the required time leading to unrealistic project schedule

Schedule	Estimated time for the project as a whole may exceed the delivery date agreed upon previously. In most of these cases, project managers add constraints on time and overload the developers to deliver on time in an unrealistic manner, which mostly does not happen.
Schedule	total projected time for the project which extends the previously agreed-upon completion date. In the majority of these cases, project managers impose time limits on developers and overburden them in order to produce on time in an unreasonable fashion, which seldom occurs
Schedule	Project's total projected period may extend the previously agreed-upon completion date. In the majority of these situations, project managers impose time limits and overburden developers in an attempt to meet arbitrary deadlines, which seldom occurs.
Schedule	Poor management skills and experience
Schedule	Pressure on the schedule to complete project on time
Schedule	High pressure on the team members to complete project on time
Schedule	Improper software development processes are being used
Schedule	Inappropriate process being practiced for the software development
Schedule	An ineffective software development mechanism is being used for project completion
Schedule	Improper software creation process affecting the project schedule
Planning and Control	Unrealistic Schedules and Budget
Planning and Control	Scheduling and budgeting that are unrealistic
Planning and Control	For the project accomplishment, schedules and budgets are unrealistic
Planning and Control	Schedules and budgets are unrealistic for the project's success
Planning and Control	Schedules and budgets that are unrealistic for the project's successful completion
Planning and Control	Budgets and schedules that are unrealistic

Planning and Control	Unrealistic Schedules and Budget for the project successful completion
Planning and Control	project's budget is insufficient
Planning and Control	budget for the project is not sufficient
Planning and Control	Project Budget is inadequate
Planning and Control	Inaccurate estimation of the project budget
Planning and Control	Historical data on software projects is insufficient for proper planning and monitoring
Planning and Control	For proper planning and control, there is a dearth of historical data
Planning and Control	Historical data on software projects is in short supply for proper planning and monitoring of the project
Planning and Control	For proper planning and control, historical data related to software projects is lacking
Planning and Control	Team member are inept and unprofessional
Planning and Control	For proper planning and control, there is a lack of historical data
Planning and Control	Inadequate human resource leading to poor project planning and controlling
Planning and Control	Insufficient human resource expertise for proper planning and management
Planning and Control	For proper preparation and control, there is a lack of human resource expertise
Planning and Control	Inadequate human resource preparation and control due to a lack of expertise
Planning and Control	Incompetent and unprofessional team member
Planning and Control	Lack of experience in the human resource for proper planning and control

Planning and Control	Team management is lacking
Planning and Control	Unsuccessful teamwork
Planning and Control	Poor team management
Planning and Control	Unsuccessful team management
Planning and Control	Working in an organization can be hazardous
Planning and Control	work atmosphere in the organization is toxic
Planning and Control	work atmosphere in the organization is unhealthy
Planning and Control	Working in an organization can be hazardous
Planning and Control	working climate in the organization is toxic
Planning and Control	Organization environment is toxic for doing work
Planning and Control	Deficiencies in roles done by others
Planning and Control	Shortcomings in tasks that are outsourced
Planning and Control	Weaknesses in activities that are carried out by others
Planning and Control	Defects in activities done by others
Planning and Control	Inadequacies in tasks that are outsourced
Planning and Control	Subcontractors or consumers fail to meet the project's requirements
Planning and Control	Users or subcontractors fail to complete the project's requirements

Planning and Control	Subcontractors or consumers fail to deliver on the project's requirements
Planning and Control	Subcontractors fail to meet the stated project's requirements
Planning and Control	Subcontractors fail to meet the project's requirement
Planning and Control	Subcontractors or users don't do what's needed for the project
Planning and Control	Deficiencies in roles done by others
Planning and Control	Insufficiencies in tasks that are outsourced
Planning and Control	Shortcomings in activities carried out by others
Planning and Control	Shortfalls in externally performed tasks
Planning and Control	Change management system is insufficient
Planning and Control	Current framework for change management is inefficient
Planning and Control	Ineffective to use change management and control mechanisms
Planning and Control	Lacks a proper mechanism to handle and monitor change
Planning and Control	Change management and controlling mechanism is inappropriate
Planning and Control	Current method for change management is inefficient
Planning and Control	Project management mechanisms are insufficient
Planning and Control	Inadequate change management mechanisms
Planning and Control	Control of shifts that isn't satisfactory

Planning and Control	Management of shifts that isn't properly planned and controlled
Planning and Control	Unsatisfactory shift management
Planning and Control	Poor shift management
Planning and Control	Shift management that isn't up to the mark
Planning and Control	Project management system and project manager are inept
Planning and Control	Project manager and system of project management being practiced are both incompetent
Planning and Control	Project management method and project manager are both not suitable
Planning and Control	Incompetent project management method and project manager
Planning and Control	Quality of the specifications/documentation is poorly maintained
Planning and Control	Requirements elicitation and documents are of low quality
Planning and Control	Specifications/quality documentation isn't kept up to the standard
Planning and Control	Poor specifications/documentation causing poor project planning and control
Planning and Control	Use of improper methodologies for handling the integration of software component
Planning and Control	Improper methodologies for dealing with device and component integration
Planning and Control	Using ineffective methodologies to handle software component integration
Planning and Control	Inappropriate methods and techniques for managing device component integration
Planning and Control	Improper frameworks for dealing with software component integration

Planning and Control	Lack of proper mechanism for the system integration
Planning and Control	Software project preparation lacks traceability, confidentiality, correctness, and inspection mechanism
Planning and Control	Software project planning lacks traceability, confidentiality, accuracy, and inspection thus affecting the overall project plan
Planning and Control	Transparency, secrecy, reliability, and review of software project are lacking thus affecting the overall project plan
Planning and Control	Software project planning was done without giving much emphasize on the traceability, confidentiality, correctness, and inspection
Planning and Control	Lack of traceability, confidentiality, correctness and inspection of the software project planning
Planning and Control	Inadequate value analysis to measure the project progress
Planning and Control	Inadequate value analysis to monitor the progress of the project
Planning and Control	Insufficient value analysis to track project progress
Planning and Control	Poor value analysis to monitor project progress
Planning and Control	Unstable organizational environment and management
Planning and Control	Management and the organizational system are in a state of flux
Planning and Control	Unstable management and workplace environment
Planning and Control	Staffs are not giving importance towards the project completion on time and as per quality
Planning and Control	Staff members have a low level of loyalty to the company and the mission
Planning and Control	Employees have a low level of loyalty to the company and the mission
Planning and Control	Low commitment of staff towards the organization and the project itself

Planning and Control	Company and the mission are not given enough priority by the employees
Planning and Control	Institution and the mission are not given necessary amount of importance and attention by the staff
Planning and Control	Staff does not place the value and emphasis on the institution and the purpose that it deserves
Planning and Control	Institution and the mission are not given the attention and significance they deserve by the workers
Planning and Control	Lacks proper mechanism, discipline and standardization for the project planning and control
Planning and Control	For project planning and control, there are insufficient mechanisms, discipline, and standardization
Planning and Control	For project planning and control, there is no proper process, discipline, or a standard being followed
Planning and Control	Unclear project objectives
Planning and Control	Project preparation and monitoring are being hampered by unclear project priorities
Planning and Control	Unclear project objectives is affecting project planning and control
Planning and Control	Project management and monitoring was hampered by unclear project goals
Planning and Control	Low morale and discipline in employees
Planning and Control	Employees with low morale and a lack of discipline
Planning and Control	Employees with low morale and poor discipline
Planning and Control	Change in organizational management when the software project was being developed
Planning and Control	When the software project was being developed, there was a shift in organizational management
Planning and Control	During the development of the software, there was a change in organizational core management team

Planning and Control	Software project development phase was affected by the sudden change in organizational management
Planning and Control	Project specification contains the requirements that were dropped by client and those requirements were take into account while estimating
Planning and Control	Project requirements that were dropped by client were take into account while estimating
Planning and Control	Client-dropped project requirements were factored into the estimation process
Planning and Control	Dropped user project requirements were factored into the estimation process
Planning and Control	Client-dropped project parameters were taken into consideration when calculating
Planning and Control	Giving importance to the project evaluation and characterization are not good enough
Planning and Control	Placing a high priority on project assessment and characterization that are not useful
Planning and Control	Placing a high value on project assessment and characterization that are not related to the project itself
Planning and Control	Taking project pressure that is unrelated to the technological assessment of costs or schedules does not correspond to fact
Planning and Control	Project pressure that is not relevant to the technical evaluation of the expenses or schedule doesn't match the reality
Planning and Control	Project pressure that is unrelated to the technical assessment of expenditures or timetable does not correspond to fact
Planning and Control	Technical assessment of the expenditures or timetable does not correspond to fact related to the software project
Planning and Control	Pattern of assigning responsibility is ambiguous, and the delegated authority is often unsure of their responsibilities
Planning and Control	Pattern of assigning responsibility is unclear , so do the assigned authority are also unclear about their tasks
Planning and Control	Procedure of assigning responsibility is ambiguous, as are the responsibilities of the delegated authority
Planning and Control	Method of assigning responsibility is vague, and the delegated authority is still unsure of their responsibilities

Planning and Control	No project management experience thus resulting in inaccurate project plan and inefficient control over the project
Planning and Control	Due to a lack of project management expertise, the project plan is inaccurate and control is inefficient
Planning and Control	As a result of the lack of project management expertise, the project plan is inaccurate and control is inefficient
Planning and Control	Due to lack of professional expertise, the project plan is inaccurate, and project control is inefficient
Planning and Control	Project plan is unreliable and project control is inefficient due to a lack of technical knowledge
Planning and Control	Project plan is inaccurate, and project control is inefficient, due to a lack of technical knowledge
Planning and Control	Estimating the resource needed is not fully covered
Planning and Control	Lack of proper human resource management lead affected the project plan
Planning and Control	Inaccurate project cost estimation affected the software project plan and caused difficulty in controlling the overall project development
Planning and Control	Transition to the next phase without finishing one or more previous phases
Planning and Control	Without completing one or more previous phases of the project, team move on to the next phase
Planning and Control	Without completing one or more prior stages of the project that would be used later on in the project, team moved to the next step
Planning and Control	Transition to the next step of the project without completing one or more previous stages affected the project plan and control mechanism
Planning and Control	Transition to the next phase without finishing one or more previous phases
Resources	Lack of necessary logistics for project success
Resources	Project's progress is hampered by a lack of necessary logistics
Resources	Project failure due to a lack of necessary logistics
Resources	Inadequate logistics for project completion
Resources	Project execution is hampered by a lack of adequate infrastructure facilities
Resources	Project execution is hampered by a lack of adequate infrastructure

Resources	Project execution is hampered by a lack of adequate infrastructure facilities
Resources	Inadequate infrastructure for project completion
Resources	Lack of sufficient infrastructure facilities for project completion
Resources	Available resources aren't up to the task to meet the project goal
Resources	Potential of available resources is insufficient
Resources	Capacity of the available resources is insufficient to meet the project requirements
Resources	Available resource are not of the required capacity
Resources	Resource's processing ability is insufficient to meet the project requirement
Resources	Resource's processing ability is insufficient to meet the project's requirements
Resources	Resource processing capability is insufficient to meet the project's needs
Resources	Capacity of the resource for processing is insufficient to meet the project's needs
Resources	Processing capacity is not adequate
Resources	Resources' storage space is insufficient to meet project need
Resources	Hardware resources that are used in the software project have little storage space
Resources	Hardware resources used have little storage space
Resources	Hardware resources' storage space is insufficient
Resources	Storage capacity of the resources used is not adequate
Resources	Memory capacity is not adequate
Resources	Component of the resource failure during project development
Resources	During the construction of a project, a component of the resource loss is occurring
Resources	During project creation, a component of resource loss is happening
Resources	Technology being used are being strained
Resources	Data,technology skills are being stretched to their fullest capacity
Resources	Straining computer science capabilities
Resources	Technology cost increased during the software development period
Resources	Bad estimation of resources

Resources	Inaccurate capital assessment of the resources to be used during project development
Resources	Inaccurate resource assessment
Resources	Resources estimation were undervalued
Resources	Failure in making accurate estimation of the project's assets resources
Resources	Miscalculation of resource capital of the project
Resources	The learning curve for the resource to be used is steep
Resources	Resource that will be used has a steep learning curve
Resources	Learning curve for the tool to be used is steep
Resources	Learning curve for the resource to be used is strong
Resources	Learning process for the resource to be used is very difficult
Resources	Resource to be used have a high learning curve
Resources	Resource has a high technical complexity rating
Resources	Resource has a high level of technical difficulty
Resources	Technical complexity of the resource is high
Resources	For the project to be completed, additional new technologies must be introduced
Resources	For the completion of the project, it is necessary to implement modern technologies which is difficult to implement
Resources	To complete the mission, new technologies must be introduced
Resources	Need to introduce new technology for the project completion
Resources	Inappropriate CASE tools were used
Resources	CASE tools that were not appropriate were used
Resources	CASE tools that were not reasonable were employed
Resources	Wrong CASE methods were used
Resources	CASE tools that were not suitable were used
Resources	Execution Time Constraint
Resources	Time limits for execution is too much high, thus increasing the pressure in the resources
Resources	Time constraints for execution are excessively tight, putting more strain on capital

Resources	Execution time limits are excessively tight, putting further strain on capital
Resources	Main storage device capacity don't satisfy the project need
Resources	Main Storage Constraint
Resources	Capacity of the main storage system is insufficient to meet the project's requirements
Resources	Primary memory size is not adequate to meet the project need
Resources	Primary memory capacity is insufficient to satisfy the project's requirements
Resources	Primary memory size is less
Resources	Main memory is smaller in size
Resources	Capacity of the primary storage system does not meet the project's requirements
Resources	Platform that is being used is highly volatile
Resources	Platform Volatility
Resources	Platform that is being used is extremely unstable
Resources	Cloud computing platform that is being used is highly susceptible to the frequent crash
Resources	Used cloud storage platform is prone to recurrent crashes
Resources	Cloud computing infrastructure that is currently in use is extremely vulnerable to recurrent crashes
Resources	Cloud computing platform being used for the software development is slow
Resources	Software development framework that uses cloud computing is sluggish
Resources	Software development framework on the cloud is inefficient
Resources	Cloud computing platform used for the software project development is highly expensive
Resources	Cloud computing infrastructure used to build software projects is extremely costly
Resources	Cloud infrastructure platform that is being used to build software projects is very costly
Resources	Cloud computing platform used for the software project development doesn't offer quality service
Resources	Cloud infrastructure framework used to build software projects does not provide good support

Resources	Cloud computing framework that was used to build the software project did not provide good support
Resources	Inappropriate cloud computing services were selected for software project development
Resources	For the implementation of software projects, inappropriate cloud computing services were chosen
Resources	For software project creation, inappropriate cloud computing services were chosen
Resources	cloud computing platform used to build software projects does not provide adequate service
Resources	Used cloud computing framework is extremely vulnerable to recurrent crashes
Resources	Offshore outsourcing companies' technologies were incompatible with the software project at hand
Resources	Technologies used by offshore outsourcing companies were not appropriate for the specific software project
Resources	Offshore outsourcing firms' technologies were incompatible with the software project at hand
Resources	Reusable software components not being used in the software
Resources	During the development of the software project, no reusable software components were used
Resources	Reusable software components were not used during the software project development
Resources	Creation of the software project was done without use of any reusable software components
Resources	Reusable software components were not included during the development and maintenance of the project
Resources	Component-Based software engineering was not used during the project development and maintenance
Resources	During the production and maintenance of the project, component-based software engineering was not practiced
Resources	During the project's growth and upkeep, component-based software engineering was not given more emphasize

Resources	Production and maintenance of the project was done without component-based software engineering
Resources	As compared to the requirements, the resources allocated to the project are insufficient
Resources	Allocation of the resources to the project itself is too small as compared to the requirements
Resources	Resources allocated to the project are insufficient in comparison to the requirements
Resources	Allocation of the resources don't match the capabilities of the individual
Resources	Allocation of resources does not correspond to the individual's capabilities
Resources	Resources being allocated do not correspond to the individual's capabilities
Resources	Hardware and software resources being allocated do not match with the employee role and position
Resources	Allocation of hardware and software resources does not correspond to the employee's function and job
Resources	Distribution of hardware and software resources does not correspond to the task and position of the employee in the project
Resources	Hardware and software resources getting wasted due to its improper allocation
Resources	Team members are not given enough training and information about the latest technologies that will be used in the software project
Resources	Members of the team aren't given enough preparation and information about the latest technologies that will be used in the software project
Resources	Team members don't receive sufficient training and knowledge about the new technology to be used in the software project
Resources	Members of the team are not given enough preparation and information about the latest technologies that will be used in the software project
Resources	Personnel shortage
Resources	Unavailability of the logistic equipments
Resources	Logistics equipment needed for the software project is not available
Resources	Lack of availability of logistical equipment needed for the software project
Resources	Lack of the necessary infrastructure in the office for the project completion
Resources	Office does not have the requisite infrastructure to complete the project

Resources	Office does not have the requisite infrastructure to finish the job
Resources	The potential of available resources is insufficient
Resources	Available resources do not have the enough capacity
Resources	Storage capacity of the resource is not sufficient
Resources	Resource's storage space is insufficient
Resources	Badly done cost-benefit analysis of the resources that are needed for the project implementation
Resources	Cost-benefit analysis of the resources that are needed for the project implementation is incorrect
Resources	Memory capacity of the resource is not sufficient
Resources	Cost-benefit analysis of the resources required to complete the project is wrong
Resources	Due to the reason framework being used in project not being open source is getting challenging in implementing project
Resources	a component that was required for the software project development failed or crashed
Resources	A critical component for the software project's development failed or crashed
Resources	A necessary component for the development of the software project failed or crashed
Resources	Database failure
Resources	Error in database design leading to frequent database failure
Resources	Database design flaws result in repeated database failures
Resources	Wrong estimation for the required resources
Resources	Platform-dependent resources being used in the project
Resources	Resource being used in the project being platform dependent
Resources	Resource lacking platform interoperability
Cost	Change in the work environment
Cost	cost of running a business has risen as the working environment has changed
Cost	cost of running a business has risen as the job landscape changed
Cost	Environmental Changes

Cost	Estimation of project costs that is unrealistic
Cost	Estimated project cost is unrealistic
Cost	Unrealistic estimation of the project cost
Cost	Requirement Faults
Cost	Faults in Requirements
Cost	Faults with the Requirement
Cost	Unrealistic Schedule
Cost	Schedule that is unrealistic
Cost	Schedule that's unrealistic
Cost	Unrealistic Timetable
Cost	Ambiguous Information about the software cost
Cost	Uncertainty Information on the price of software
Cost	hazy Cost of software information
Cost	Inconsistent Cost of the program
Cost	Ambiguity Information on the cost of software
Cost	Inadequate project management and cost control
Cost	Inadequate project management and budgeting
Cost	Insufficient project management and cost tracking
Cost	Miscommunication between the developer and the client
Cost	Client-developer miscommunication
Cost	Miscommunication between the client and the developer
Cost	Client-developer communication breakdown
Cost	Misunderstanding between the developer and client
Cost	Management change
Cost	Changes in management
Cost	Changes in leadership
Cost	Shift in management
Cost	Changes in technology
Cost	Changes in the technology to be used on a frequent basis
Cost	Changes in technology that must be used on a regular basis

Cost	Frequent changes in the technology to be used
Cost	Technological change
Cost	Changes in technology also resulted in a rise in project costs
Cost	Increased project costs due to technological advancements
Cost	Changes in technology are causing project costs to rise
Cost	Changes in technology also resulted in a rise in project costs
Cost	Technological change leading to increased project cost
Cost	Lack of expert consultation
Cost	Expert consultation was lacking
Cost	Expert advice was not sought
Cost	Cost estimation and method consultation are also lacking
Cost	Inadequate cost estimate and consultation on the process
Cost	Cost analysis and method consultation are incomplete
Cost	Lack of cost estimation and process consultation
Cost	Budget instability
Cost	Budget shakiness
Cost	Economic uncertainty
Cost	Unstable budget
Cost	Adaptability in development
Cost	Flexibility in development of project
Cost	Flexibility in the development process
Cost	Versatility in development
Cost	Development Flexibility
Cost	No Risk Resolution Mechanism
Cost	There isn't a risk-resolution mechanism in place
Cost	No any mechanism of Risk-Resolution
Cost	Market prices for products or services, including professional effort, are unpredictable
Cost	Prices for products and services, including skilled effort, are uncertain
Cost	Uncertainty in market prices for products or services, including professional effort

Cost	uncertainty about market rates for goods or services, including professional effort
Cost	No any defined standard for market rates for professional effort, licenses, hardware and facilities
Cost	No defined market rate for professional services, licenses, hardware, or facilities
Cost	No set price for professional services, permits, hardware, or equipment
Cost	There is no defined minimum wage for skilled effort, licenses, hardware, or services
Cost	Team cohesion in workplace
Cost	In the office, there is a lack of teamwork
Cost	Workplace teamwork is lacking among employees
Cost	Employees' ability to work together in the workplace is lacking
Cost	Employees are deficient in workplace collaboration
Cost	Employees are deficient in their ability to work together in the workplace
Cost	Workers' willingness to work together in the organization is poor
Cost	Process Maturity Level like CMMI are not given importance in organization
Cost	Process Maturity Levels such as CMMI are undervalued in organizations
Cost	In organizations, process maturity levels such as CMMI are not valued or appreciated highly enough
Cost	Value of process maturity levels such as CMMI is not provided in organizations
Cost	Budget is too small
Cost	Estimated budget is too less for the project
Cost	project's estimated budget is insufficient
Cost	For the project, the budgeted amount is insufficient
Cost	budgeted amount is inadequate for the project
Cost	Budget disbursements are behind schedule
Cost	Budget disbursements are being made later than anticipated
Cost	Delayed disbursements of budget
Cost	Budget disbursements are being delayed

Cost	Budget is too large hence impacted project in negative way
Cost	Budget is too large hence impacted project management
Cost	Since the budget is so high, project management has been negatively hampered
Cost	Since the budget is too high, it has a negative effect on the project
Cost	Budget is excessive, which has harmed the project
Cost	High budget has a negative effect on the project
Cost	Improper allocation of budget in software project development
Cost	Low wages to employee
Cost	Employee's wage is insufficient
Cost	Insufficient salary to employee
Cost	High consultation fee for the software project
Cost	For the software project, there is a high consultation fee
Cost	Delay in tender approval after design finalization
Cost	High wages for the software developers or employee
Cost	After the design is finalized, there is a delay in tender acceptance
Cost	Skilled Human resource being expensive
Cost	Insufficient budget for the project
Cost	Project's tools or technology are extremely costly
Cost	Tools or technology cost being highly expensive for the project
Cost	Development team is less effective hence impacted the project budget
Cost	Development team is less productive
Cost	Since the development team is less active, the project budget has been affected
Cost	Scale and scope of the deliverables impacted project cost
Cost	Project cost was influenced by the size and complexity of the deliverables
Cost	Software owner is a government agency
Cost	Government agency owns the program
Cost	Change in the tax rate of the country
Cost	Variation in the country's tax rate
Cost	country's tax rate has changed since the project takeover

Cost	Project has to pass through the government tender process
Cost	Effect of the work split or the outsourcing on the project's projected effort
Cost	Work split impacting the project estimated effort
Cost	Contracting firms' lack of expertise and financial resources
Cost	Lack of experience and financial abilities of contracting companies
Cost	Experience ,expertise and financial resources are missing in contracting companies
Cost	Project schedule variations drive variations in overheads such as the costs of the project management team, office space and development or testing facilities
Cost	Variations in project schedules affect operating costs such as the project management team's salary, office space, and construction or testing facilities
Cost	Government bureaucracy late approval of the project consultant
Cost	Government bureaucracy delayed the project consultant's approval
Cost	Project scope and requirement change affecting the project cost
Cost	Maintenance contracts and license charges that were expected to cease at a specific time need to be extended as the project continues past its planned completion date
Cost	Inflation exceeding the budgeted allowances
Cost	Inflation rising above the estimated allowances
Cost	Project effort not estimated by the quantitative estimation tool
Cost	Maintenance arrangements and licensing fees that were supposed to expire at a certain point must be extended as the project progresses beyond its original completion date
Cost	Delay in payment by clients
Cost	Delay in payment to outsourced company
Cost	Inadequate labor laws in the country where the project is being implemented
Cost	Improper labour law in country where project is being developed
Cost	During the cost and effort assessment process, cost constraints were heavily adjusted
Cost	Cost constraints were highly adjusted during cost and effort estimation
Cost	Project is extremely complicated, which raises the project expense

Cost	Project is highly complex thus increasing the project cost
Exceptions	Insurgency
Exceptions	Crisis or Global Crisis
Exceptions	Political Protest and Blockade
Exceptions	Natural Calamities
Exceptions	Pandemics
Exceptions	Change in market conditions
Exceptions	Paradigm shift in the technology
Exceptions	Earthquake
Exceptions	Soil Erosion
Exceptions	Flooding
Exceptions	Hurricanes and tropical storms
Exceptions	Drought and water shortage
Exceptions	Thunderstorms and lightning
Exceptions	Tornadoes
Exceptions	Tsunamis
Exceptions	Wildfire
Exceptions	Winter and ice storms
Exceptions	Sinkholes
Exceptions	Extreme heat
Exceptions	Emergency diseases
Exceptions	Hazardous materials leakage
Exceptions	Chemical or the biological weapons use
Exceptions	Cyber attacks
Exceptions	Explosion
Exceptions	Civil unrest
Exceptions	Radiological emergencies
Exceptions	Nuclear power plant and nuclear blast
Exceptions	Power service disruption & blackout
Exceptions	Volcanic eruptions

Exceptions	Limnic eruptions
Exceptions	Solar flare
Exceptions	Civil war
Exceptions	Cold war
Exceptions	Holy war
Exceptions	World war
Exceptions	Artificial Intelligence Risk
Exceptions	Emerging technology risks
Exceptions	Cyber Security Attacks
Exceptions	Exception like covid and natural calamity
Exceptions	New Market Trends
Exceptions	New Innovations that can cause cyber security attacks
Exceptions	Competitive actions for promoting business or business growth
Exceptions	Use of New and unproven innovations
Exceptions	Lack of security Assessment and Security concern
Exceptions	Need for Extensive Maintenance and Support
Exceptions	Crash of the world wide web
Exceptions	Data theft or data loss
Exceptions	Loss due to power failures
Exceptions	Expenses incurred as a result of power outages
Exceptions	Theft or loss of data
Exceptions	The Internet has crashed.
Exceptions	Extensive Maintenance and Support are Required
Exceptions	Lack of safety Concerns about assessment and security
Exceptions	Using innovations that are brand new and have yet to be tested
Exceptions	Actions taken in a competitive environment to promote business or business growth
Exceptions	Cyber security breaches may be caused by new innovation.
Exceptions	New Software Market Developments
Exceptions	Exceptions such as covid and natural disasters

Exceptions	Covid-19
Exceptions	Share Market Collapse
Exceptions	Stock Market Collapse