

This sheet provides some common risks in student projects. You should check if it applies to your group project.
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Risk Category	Risk Title	Description	Estimated likelihood of occurrence (L: 1-5 with 1 lowest likelihood)	Estimated Impact (I: 1-5 with 1 lowest impact)	Estimated retirement Cost (C: 1-5 with 1 lowest cost)	Priority (lowest number has high priority) (6-L)*(6-I)*C	Responsible engineer	Target completion date	Detailed plan	Execution summary	Status
personel	Loss team members	One or more team members drop the class	1	1	2	50	team leader and all members	10/20/2023	Redefine the project scope if necessary, and assign the tasks to other team members.	No one left class so far	Open
	add new team members	one or more team member gets added	1	1	2	50	team leader and all members	10/20/2023	Redefine the project scope if necessary, and assign the tasks to other team members.	1 person was added to the group	Open
	Lack of motivation or responsibility	One or more team member lacks motivation/responsibility	2	2	2	32	team leader and all members	10/20/2023	Redefine the project scope if necessary, and assign the tasks to other team members.	Everyone is on track	Open
Communication	duplicate work	Two or more team member does the same work	1	3	2	30	team leader and all members	10/20/2023	Backend: Yuxuan, Jingjing, Haolun Frontend: Jianle, Abigya Security: Zhiwei, Weihao Backend-Front integration and then apply security	Workload has been divided into 3 component: front, back, security	Open
	worked on wrong components	One or more team member worked on the wrong part of assignment	3	3	1	9	team leader and all members	10/20/2023	Team Lead will have to review each sub-team's work on regular basis to ensure that all members on track for their tasks	will continue to engage with all team member	Open
	useless work	One or more team member does ineffective work	2	3	2	24	team leader and all members	10/20/2023	plan ahead and stick to it	no current useless work	Open
	inconsistent work	change idea or structure 2 weeks after beginning	1	3	1	15	team leader and all members	10/20/2023	Team Lead will have to review each sub-team's work on regular basis to ensure that all members on track for their tasks	will continue to engage with all team member	Open
	inconsistent communication	One or more team member does not engage in group	3	3	1	9	team leader and all members	10/20/2023	Team lead will continously engage with team member. Team member have to response back to Team lead within reasonable time	will continue to engage with all team member	Open
Requirements	unclear requirements	vague or ambiguous descriptions of function requirements, so unabale to implement	1	4	3	30	design and implementation manager and all members	10/20/2023	Requirement are more detailed in the SPPP and SDD	Current work are more defined	open
	scope creep	add too many deliveables in the middle of the project	1	4	2	20	team leader and all members	10/20/2023	Focusing on our primary functionalities first before implementing other desirables	core function CRUD	Open
	constant requirements changes	some functions is no longer needed, or change to other functions	1	3	2	30	design and implementation manager and all members	10/20/2023	Focusing on our primary functionalities first before implementing other desirables	core function CRUD	Open
Management	improper task assignments	task assigned improperly	2	2	2	32	team leader and all members	10/20/2023	All team member will voice their improper task assignment	no improper task are being assigned at this moment	Open
	improper planning	task planned improperly	2	2	2	32	team leader and all members	10/20/2023	All team member will voice their concern on improper planning	no improper planning at this moment	Open

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	lack of management skills	One or more Team member lack of management skills	2	2	2	32	team leader and all members	10/20/2023	All team member will voice their concern on lack of management	no concerns of management at this moment	Open
Technology competence	Not familiar with the framework used	One or more Team member unfamiliar with SpringBoot	2	4	3	24	team leader and all members	10/20/2023	All team member will engage in self learning of SpringBoot and will actively seek help from other member if necessary	Self-paced learning of SpringBoot	open
	Not familiar with the programming language used	One or more Team member unfamiliar with programming language	2	4	3	24	team leader and all members	10/20/2023	All team member will engage in self learning of Java and will actively seek help from other member if necessary	Self-paced learning of Java	open
	Not familiar with unit testing	One or more Team member unfamiliar with unit testing	3	4	3	18	team leader and all members	10/20/2023	All team member will engage in self learning of Junit and will actively seek help from other member if necessary	Self-paced learning of Junit	open
	Other technology incompetence	known technology tech stack does not compete with Spring boot	4	4	3	12	team leader and all members	10/20/2023	All team member will engage in self learning of any other technology stack and will actively seek help from other member if necessary	Self-paced learning of new stack	open
	Not familiar with Git	One or more Team member unfamiliar with Git	3	4	3	18	team leader and all members	10/20/2023	All team member will engage in self learning of Git and will actively seek help from other member if necessary	Self-paced learning of Git	open
Design and implementation	Improper design	poor design which does not fill coding standards	4	3	3	18	team leader and all members	10/20/2023	All members should continuously review the application design	Self review of design implementation as well as biweekly team meeting to further discuss any change/improvement to the current design	open
	improper technology stack	SpringBoot does not satisfy all our requirements	1	4	2	20	team leader and all members	10/20/2023	All team member will discuss and evaluate the risk of implementing new tech stack vs. continuing current tech stack	Current tech stack satisfies our requirements	Open
	Messy code	Code not following code standards	2	3	2	24	team leader and all members	10/20/2023	Codes will be reviewed by everyone before merging into the Masters	Codes will be reviewed prior to merge	open
Testing	Not enough testing	testing units are below sufficient	3	2	2	24	team leader and all members	10/20/2023	more unit tests are asked to create for the defect parts and fail edge cases	enough unit tests are generated	open

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Integration and deployment	Not enough time for integration and deployment	no time for integration and deployment	3	1	1	15	team leader and all members	10/20/2023	We will focus on the core functionality of the application and all team member will review additional functionalities and budget time accordingly.	Primarily focus on core functionalities and additional features will be reviewed against time constraints	open