

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 team leader and all members	Target completion date	Detailed plan	Execution summary	Status Open	Last reiewed
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	10/09
	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	10/09
	Lack of motivation or responsibility	One or more team member lacks motivation/responsibility	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.	Decrease risk as project is near end	Open	10/09
Communication	duplicate work	Two or more team member does the same work	1	3	2	30	team leader and all members	09/25/2023	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 Duplicated work risk should decrease more as near end of project	Open	10/09
	worked on wrong components	One or more team member worked on the wrong part of assignement	1	2	1	20	team leader and all members	10/20	Team Lead will have to review each sub-team's work on regular basis to ensure that all members on track for their tasks plan ahead and stick to it	will continue to engage with all team member	open	10/09
	useless work	One or more team member does ineffective work	2	3	2	24	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	No current useless	open	10/09
	inconsistent work	Change idea or structure 2 weeks after begining	1	2	1	20	team leader and all members	10/20	Team lead will continously engage with team member.	work will continue to engage with all team member	open	10/09

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	inconsistent communication	One or more team member does not engage in group	1	2	1	20	team leader and all members	10/20	Team member have to response back to Team lead within reasonable time	will continue to engage with all team member decrease risk as few as near project deadline	open	10/09
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	09/05/2023	Requirement are more detailed in the SPPP and SDD	Current work are more defined	open	10/09
	scope creep	add too many deliveables in the middle of the project	1	4	2	20	team leader and all members	09/05/2023	Focusing on our primary functionalities first before implementing other desirables	core function CRUD achieved	Open	10/09
	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	10/09
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	10/09
	improper planning	task planned improperly	3	4	3	18	team leader and all members	10/20/2023	Reiterate that all team member will voice their concern on improper planning Need a better way to identify bottleneck processes and/or ways to allocate work resource more efficiently	Team member should voice their concern on lack of and/or too much workload	Open	10/09
	Not familiar with the framework used	One or more Team member unfamiliar with SpringBoot	1	4	3	30	team leader and all members	10/20	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 decreased risk as time goes on	Open	10/09

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Technology competence	Not familiar with the programming language used	One or more Team member unfamiliar with programming language	1	4	3	30	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 decrease risk as time goes on	Open	10/09
	Not familiar with unit testing	One or more Team member unfamiliar with unit testing	2	4	3	24	team leader and all members	10/20	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 decrease risks as every member is required to submit their own tests	Open	10/09
	Other technology incompetence	known technology tech stack does not compete with Spring boot	2	4	3	24	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	10/09
	Not familiar with Git	One or more Team member unfamiliar with Git	2	4	3	24	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	10/09
	Not familiar integrating different tech stack	One or no member is familiar with integrating different parts of tech stack	3	4	3	18	team leader and all members	10/20/2023	All team member will need to video record their expertise on their part of the project as well as learn from other member's tech expertise	self learning, engage with other memebbers, and watch their tech expertise demos	open	10/09
Design and implementation	Improper design	poor design which does not fill coding standards	2	3	3	36	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 risks are decrease	open	10/09

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	improper technology stack	SpringBoot does not satisfy all our requirements	1	4	2	20	team leader and all members	10/09/2023	All team member will discuss and evalute the risk of implementing new tech stack vs. continuing current tech stack	Current tech stack satisfies our requirements	open	10/09
	Messy code	Code not following code standards	1	3	2	30	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	10/09
Testing	Not enough testing	testing units are below sufficient	1	2	2	40	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 risks are decreased	open	10/09
Integration and deployment	Not enough time for integration and deployment	no time for integration and deployment	3	1	2	30	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 funcionalties and budget time accordingly.	Primarily focus on core functionalities and additional features will be reviewed against time constrains	open	10/09