Inventory Management System (IMS) Risk Assessment

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		IMPACT				
		Minimal	Minor	Moderate	Major	Severe
LIKELIHOOD	Guaranteed	5	10	15	20	25
	Expected	4	8	12	16	20
	Likely	3	6	9	12	15
	Possible	2	4	6	8	10
	Unlikely	1	2	3	4	5

	Risk	Statement	Response	Objective	Likelihood	Impact	Risk Level
1	Ease of access for user - Local repository versus RDS	Using a local repo and neglecting that user will be using remotely can create barriers	Ensure correct steps and details are provided so that external users can access and use your code	Update readme file and check functionality	Possible	Moderate	6
2	Time Management and Project Organisation	Adding unnecessary functionality can waste time and time estimates of tasks may be unrealistic or inaccurate	Use project management board and stick to schedule and follow project specification	Produce the Minimum Viable Product as per the project specification to the best of your ability	Likely	Major	12
3	Problems associated with data transfer from old, or legacy, system(s)	Forking from a 2 year old repository; code, IDEs, etc. may malfunction	Check integration; software is backwards compatible and correct versions are used	Both developer and future users can interact with all code seamlessly	Unlikely	Major	4
4	Reliability of the system	Inexperienced developer working with unfamiliar code and/or concepts	Review and update documentation, code, and apply theory regularly	Maximise reliability for demonstration	Expected	Major	16
5	Communicating functionality to non-technical users (or from an inexperienced developer)	Improper use of terminology and/or limited understanding of concepts and project material causing confusion	Familiarise yourself with relevant, project specific, material throughout project	Explain processes, development decisions, and answer questions adequately	Likely	Moderate	9
6	Low test coverage	Low percentage test coverage increases chances of containing undetected software bugs	Relatively simple to assess and fix through repeated testing throughout development	Aim for 60-80%+ to increase confidence in and simplicity of code, and improve overall functionality	Possible	Moderate	6
7	Merge conflicts with Git repository	Conflicting edits and/or deletion of multiple branches in same project causing project disruption	Unlikely to occur in a non-teamwork environment, however not impossible	Understand the functionality of the feature branch model and use appropriately throughout project	Unlikely	Minor	2
8	Dehydration - specific to forecasted heatwave	Working without proper hydration in high heat causes lightheadedness, feeling weaker, and having less energy	Hydrate regularly, rest periodically, and use a fan or A/C (if baller) throughout hottest intervals of the day	Stay hydrated to maintain productive and in good health	Expected	Moderate	12