

# Risk assessment- Inventory management system

Company name: QA

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Who might be harmed and where is the impact?	Risk description and impact	Action taken	Objective	Likelihood	Impact	Risk Level	Who is responsible?
Customers, GitHub, SQL database	Vulnerability of customer information and unauthorized access to database. The database contains sensitive information relating to customers. Additionally, the source code may contain login details for databases. The impact of this could be unauthorised access, malicious alterations, and data leaks.	Use stronger passwords and usernames keep them regularly updated. Store customer information securely,	Reduce the likelihood of hacking and data leaks.	Medium	6 High	Medium-to-High	System developers
Customers, SQL Database	Loss of customer data. An example of this includes human error and accidental File deletions. Additionally, customer data can be lost when the project fails to connect to the SQL Database. This impact of this is data loss and an inaccurate database.	All customer data is backed up to allow for a full restore. Back-ups include online cloud platforms and local repositories. Furthermore, ensuring continual update and monitoring of back-up.	Reduce the likelihood of customer data loss.	Low	6 High	High	System developers

System developers, All	Hardware failure. Computers and servers can experience technical problems. This means system developers will be unable to complete the project work until problem is fixed. This impacts the ability of the developers to meet deadlines.	Ensure all data is backed up (cloud platform or locally), ensure project work is continually pushed to GitHub. Request help from technical team to resolve hardware issue. Ensure hardware specifications are checked at the beginning of the project. Inspections of hardware for issues and replacement where required.	Reduce impact of hardware failures and inability to complete work.	Low	3 Medium	Medium-High	System developers
System developers. GitHub, Cloud platforms	Internet connectivity issues. This can include connections being lost, routers not responding and servers not responding. This impacts backups to GitHub and cloud platforms.	Ensure a stable WIFI or ethernet connection is set up initially. Test this connection. Monitor for changes in connection. Work offline where possible (e.g. local repository, mySQL workbench). When connected to the internet ensure backup to GitHub and cloud platforms.	Reduce the likelihood and impact of internet connectivity issues.	Medium	4 Medium	Low	System developers
System developers	Hardware and software compatibility. The software being used (for example mySQL workbench, eclipse, maven) may be incompatible with installed operating system or specifications of the computer. The impact of this is the inability to complete project work.	Ensure all software used is checked for compatibility requirements and installed prior to the start of the project. Ensure the latest versions of the software are installed. Ensure the compatible versions are installed with the computer's operating system. Check for updates and install when required.	Reduce impact of software installation failures and the inability to complete work.	Low	3 Medium	Medium-High	System developers

System developers GitHub, Cloud platforms, databases	Forgotten usernames and passwords. Log in details may be forgotten for online cloud services (such as Google cloud platform) or online repositories (such as Git-hub). Additionally, they may be forgotten for databases (such as SQL). The impact of this is the inability to pull work from Git-Hub, access accounts and access databases.	Create memorable log in details whilst maintaining security. When details are forgotten reset to the email address provided on sign up. Ensure that the email account used on setup is accessible (for example use company QA email).	Reduce impact of forgotten log in details and inability to access accounts and project work.	Low	2 Low	Low	System developers
System developers	Risk of COVID-19. Risk when working on site.	Work from home following government advice for the duration of the project.	Reduce impact from COVID-19 risk.	Low	2 Low	Low	System developers

## Risk Matrix

	SEVERITY		
LIKELIHOOD	1	2	3
1	LOW 1	LOW 2 - COVID-19	MEDIUM 3 - Hardware Failure - Hardware and software compatibility
2	LOW 2 - Forgotten usernames and passwords	MEDIUM 4 - Internet connectivity issues	HIGH 6 - Customer data loss - Data leaks
3	MEDIUM 3	HIGH 6	HIGH 9