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| Risk | Risk Statement | Response strategy | Objectives | Likelihood | Impact | Risk Level |
| GitHub Failure | Any source code and changes made that have been pushed to GitHub could potentially be inaccessible if GitHub was to go down and not work which could hinder delivery of the project. | Maintain use of other cloud systems as well as backing up projects on an external hard drive so if I needed to upload it from a different machine onto another cloud platform, it remains a viable possibility. | Reduce the likelihood of losing project work/data. | Medium | Medium | Medium-to-High |
| COVID-19 Risk | If there were to be a COVID outbreak in my local area, it would create a significant health risk and potentially put a stop to the whole project until recovery. | Use hand sanitizer when in public spaces, keep 2 meter’s minimum distance from others when outside for exercise and maintain use of face masks in public areas. | Reduce the likelihood of contracting COVID-19. | Low | High | Medium |
| Accessible Source Code | If we were to give the source code itself out as a public resource, it would be open to manipulation by hackers who could use it maliciously to steal data and commit crimes. | Use a build tool, i.e. Maven in this case, to compile the project into a package where the project can be run as a fat jar; no need to share the source code. | Reduce the likelihood of data being stolen. | Medium | High | High |
| SQL Injections | A code injection technique, used to attack data-driven applications, in which malicious SQL statements are inserted into an entry field for execution, making the whole IMS vulnerable. | Using escaping symbol characters to protect against an SQL injection attack, treating all inputs as a string and not as the end of a string. (For further security, sanitize the inputs given). | Reduce the likelihood of loss/theft of data through an SQL injection attack. | Low | Medium | Medium |
| Hardware Failure | If my PC was to be destroyed/damaged and my HDD inaccessible, I would lose all progress made on the IMS and hence lose the whole project. | Use a cloud system to back up my files/data and regularly save & upload to ensure that the project can be worked on from a different machine in the event of failure. | Reduce likelihood of loss of project due to storage on one machine. | Low | High | Medium |
| Schedule Risk | If, during the project, I was to let the work rate slow down and procrastinate tasks, then this may affect the project and lead to project failure. | Estimate how long each task (user story) will take and go at a consistent pace; plan to finish earlier than deadline of the project. | Reduce likelihood of project failure due to incompletion. | Low | Low | Low |
| Technical Risk | If the Java and SQL isn’t correctly written, it can lead to problems when trying to run the IMS and lead to project failure. | Adhere to OOP principles when writing out the source code and use SonarQube to ensure that the code is written in the best way I can. | Reduces the likelihood of project failure due to badly written source code. | Low | Medium | Low-to-Medium |