|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Risk | Risk Statement | Response strategy | Objectives | Likelihood | Impact | Risk Level |
| GitHub | Any source code pushed to GitHub could potentially contain information that hackers would find useful when trying to a maliciously alter the project. The source files could potentially contain hard-coded login credentials which could allow for data leaks. | Use stronger passwords and usernames than just “admin” or “root”, and keep them regularly updated. | Reduce the likelihood of hacking and data leaks. | Medium | High | Medium-to-High |
| Planning | If the planning for the project is not clear or concise in what I am trying to achieve it could lead to loss of time to work on and complete the project and could affect the overall quality. | Ensure that initial planning is clear well thought out and available at all times to refer back to when developing the project | Keep design documentation clear simple and ensure it is well backed up | Medium | High | Medium-to-high |
| GCP Issues | Possible issues could be occurred with the use of Jenkins or GCP for example servers being down or overloaded/ unresponsive at times. | While there is no response I can take from my end, Google’s servers are usually very reliable, so this issue may be unlikely to occur, if this issue becomes severe I may have to use MySQL as an alternative. | Possibly be ready to switch to MySQL | low | medium | Low-to-medium |
| Audience understanding for presentation | The audience for the presentation may not be able to understand features or aspects of the project depending on how well I present the project and how well I manage my time when presenting. | I must remember and use good presenting skills and practice my presentation in preparation. | Avoid confusing the audience and ensure they understand the product. | medium | High | Medium-to-high |
| Health issues | Health and lifestyle issues could possibly affect the project, if I were to suffer an illness or If I were to not manage my lifestyle well such as not getting enough sleep for example are all problems I could face. | I must ensure that I don’t work too hard and make sure to get as much sleep as I require to function effectively I should take breaks regularly. | Stay healthy and keep safe. | low | high | medium |
| Repository Mismanagement | Repository mismanagement is an issue which could occur should I mismanage my use of it. | I should make sure that only data that is necessary to be stored in the repository are and that it is well managed | Ensure repository is well managed | low | low | low |
| Loss of useful files/data | Data loss is an issue that would need to be considered as it is always a possibility when working with any type of software and is always a possibility. | I must ensure that any files that are related to the project be securely backed up and to store files/data where I can easily access them | Unsure files/data are backed up and easily reachable to me | low | high | medium |
| Loss or depreciation/destruction of device | The devices available to me to work on this project could possibly become less effective, lost and unavailable to me or even unusable. | I must use my devices for working on sensibly and safely, and ensure that I have alternatives available were something to happen. | Make sure work devices are available | Low | low | low |
| Time management issues | Time management issues may and or will likely appear within this project. Mismanagement of time is an issue which can very easily happen appear from unforeseen circumstances. | I must attempt to stay on track with the weekly goals that have been set and, this could be achieved from setting smaller daily goals so that I can identify if I am falling behind earlier, so that I can rectify this earlier. | Ensure to meet weekly goals | High | medium | Medium-to-high |
| Security Issues using Google Cloud Platform | Information stored In the database using Google Cloud Platform could be altered or deleted if it is hacked into | Use strong unique password and do not use obvious passwords like ‘password’ or ‘root’ for example | Ensure passwords are strong and unique | Low-medium | low | low |
| Problems with spring | Possible issues may occur when using Spring, that may lead to halting my progress in achieving the MVP for the project | Listen attentively to the tutorials, make notes where necessary ask for help when needed. | Follow these instructions well | Medium-high | Low-medium | medium |
| Maintaining focus and avoiding fatigue | Both loss of focus and fatigue due to overwork are problems that may arise and while the causes may be different, they both have the same overall effect on the project | Take rests when needed and try to avoid working for extreme prolonged periods of time | Make sure to rest and work in an environment that helps me to focus | medium | Low-medium | medium |