**IMS Project // Risk assessment & matrix***Author: Cameron Ofoluwa*

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| --- | --- | --- | --- |
|  | Severity: 1 | Severity: 2 | Severity: 3 |
| Likelihood: A | A1 | A2 | A3 |
| Likelihood: B | B1 | B2 | B3 |
| Likelihood: C | C1 | C2 | C3 |

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| Impact Risk | Risk Statement | Response strategy | Objective | 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. | B | 3 | B3 |
| Poor management | Maintaining poor management throughout the project lifetime can result in a dire outcome for the whole project. Whether this be running out of time or mixing up priorities with tasks needing to be completed. | Work with a project management dashboard such as Jira to help keep management to a professional level. | Maintain a high level of management throughout the project to meet deadlines. | A | 1 | A1 |
| Unlearn, yet required skill | Features & parts of the programme may require certain skills that I do not know, nor have the time to learn (as the project will not be finished in time). | Ensure to use strategies and technologies that I know prior to the project, or only ensure I can fit learning into my Sprints to make sure the project does not go over. | Ensure the programme is worked on by the correct person(s) with the correct knowledge. | B | 2 | B2 |
| Unavoidable risks | Unavoidable, real world risks that would affect the project and potentially stop it from being finished on time such as power cuts and hardware failure. | Have multiple options in terms of hardware (PCs, laptops, mobile phones) and have more than one spot in a different geographical location in case anything was to happen such as a power cut or internet maintenance. | Ensure I have multiple backup ways to access project files to ensure I can complete the project by the deadline. | C | 2 | C2 |
| Poor code & technical risk | Poor code can lead to technical failure throughout the programme leading to poor performance and a bad end product the client is not happy with. | Use proven coding strategies, tactics and practices to ensure a high quality of code. Use programmes such as SonarQube to help clean up code and Junit to help testing the programme to ensure it runs smoothly with no errors. | Improve the quality of code written for the programme, ensuring the likelihood of the project working as it should. | A | 1 | A2 |
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