**Risk Register**

This document tracks the potential risks to the completion of the project, their severity and mitigation strategies to reduce the impact of said risks. For the likelihood of risks low likelihood is less that a 10% chance of occurring, medium in between 10% and 50% and high is above 50%. For impact, a low impact risk is something than can be rectified within a day, a medium impact issue could take a few days to a week to resolve, and a high impact risk could take upwards of a week to multiple weeks to resolve.

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| **Risk** | **Likelihood** (low, med, high) | **Impact** (low, med, high) | **Severity**  (low, med, high, extreme) | **Mitigation Strategy** |
| A team member drops out of the unit. | Low | High | High | A meeting will be called to discuss a) how to delegate the team member’s assigned tasks, and b) if the scope needs to be updated. |
| Issues integrating with external databases | Med | Med | High | Early contact with the external database providers for help integrating and troubleshooting. Testing |
| Unreasonable scope expansion | Low | Med | Med | Early and frequent meetings with client to sort out the scope of the project in the first sprint. |
| Bugs and errors in code | High | Low | Med | By using issues, we can compartmentalise the project into manageable chunks that can individually be debugged and if an out-of-scope bug occurs it can become its own issue. Bugs are to be expected but with good protocol they can be easily managed. |
| Data loss with GitHub | Low | High | High | Have local backups for recovery purposes. |
| Team member unavoidable unavailability | Med | Low | Low | Using issues and proper communication someone can easily pick up the work that needs to be completed to keep the project on schedule. |
| Running out of time to complete full scope | Med | High | High | Use of proper time management and time estimates for features can help mitigate. Using prioritization of the most key features, to ensure at least a minimum viable product is produced. |
| Needing to change selected frameworks | Low | High | High | By researching what frameworks to use early, and by comparing to the scope of works to judge the requirements of our framework we can select frameworks that can complete the project and will not need to be replaced. |