# Project Risk

The risk in this project is assessed using a scale for 1-5 for likelihood and severity, the table in the following section defines these values.

**Any risk with an Impact of Medium or above must be mitigated.**

## Risk Matrix

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | | **Severity** | | | | |
| Negligible (1) | Minor (2) | Moderate (3) | Critical (4) | Catastrophic (5) |
| **Likelihood** | Rare (1) | Very Low  (1) | Very Low (2) | Low  (3) | Medium  (4) | Medium  (5) |
| Unlikely (2) | Very Low  (2) | Low  (4) | Medium  (6) | Medium  (5) | High  (10) |
| Moderate (3) | Low  (3) | Medium (6) | Medium  (9) | High  (12) | Very High  (15) |
| Likely (4) | Medium  (4) | Medium  (5) | High  (12) | Very High  (16) | Extreme  (20) |
| Almost certain (5) | Medium  (5) | High  (10) | Very High  (15) | Extreme  (20) | Extreme  (25) |

## Risk Register

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Risk ID | Description | Current Risk | | | Owner | Date | Mitigation | Residual Risk | | |
| L | I | S | L | I | S |
| *R0* | *Developer’s computer fails and data is lost* | *2* | *5* | *10* | *KO* | *07 Feb 2023* | *Setup and maintain a remote backup of all data pertaining to the project* | *2* | *2* | *4* |
| R1 | Incorrect Reporting and Document Control | 2 | 5 | 10 | SZ | 20 Feb 2023 | Regular Uploads on current drafts and draft quality checks by other members to find potential mistakes. | 2 | 3 | 6 |
| R2 | Team Communication Breakdowns | 1 | 3 | 3 | FK | 21 Feb 2023 | Attend Regular Team meetings with clear messages through e-mail or WhatsApp to arrange the platform to meet on. | 1 | 2 | 2 |
| R3 | Low User Testing | 3 | 4 | 12 | MA | 26 Feb 2023 | Create a testing plan that can be applied consistently through the development process. Report testing results in a professional format. | 2 | 2 | 4 |
| R4 | Low System Security | 5 | 5 | 25 | KO | 27 Feb 2023 | Implement secure development techniques such as secure login details linked to personal e-mails with regular security testing to test the limits of the system’s security. | 2 | 3 | 6 |
| R5 | Delays in Development Process | 2 | 5 | 10 | KO | 27 Feb 2023 | Create in-depth project plans with realistic deadlines while following a criteria to monitor progress in development. | 1 | 3 | 3 |
| R6 | Incomplete Codebase Version Control | 1 | 4 | 4 | KO | 27 Feb 2023 | Use appropriate professional tools such as GitHub in order to maintain version updates and changelogs whenever a change is pushed. | 1 | 2 | 2 |
| R7 | Unclear Goals or Objectives | 3 | 4 | 12 | FK | 28 Feb 2023 | Regular meetings and planning within the team alongside the delegation and prioritisation of tasks to individual members. | 1 | 2 | 2 |
| R8 | Issues with Development Tools | 1 | 5 | 5 | Group 25 | 1 Mar 2023 | Making sure development programs are kept up to date with the latest updates to avoid bugs and crashes. Prepare alternative programs in the even that one of the development tools fails to work properly i.e. crashes | 1 | 3 | 3 |
| R9 | Data Breaches within the System | 3 | 5 | 15 | KO | 1 Mar 2023 | Using professional practices to implement basic cyber security methods such as encryption to ensure data is harder to obtain from the system. Using third-party PEN testers to find weaknesses in the system | 2 | 3 | 6 |
| R10 | Project Scope Creep | 3 | 3 | 9 | FK | 1 Mar 2023 | Regularly checking the AirVia project requirements and making sure our diagrams and finished products align with what is specified for us. | 2 | 2 | 4 |