| No. | Risk | Description | Category | Avoidance | Response | Probability | Impact | Score |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | Cloud service unavailable | Google’s firebase system is down | Network | Store file backups locally | Contact Google | 2 | 8 | 16 |
| 2 | Undetected bugs | The software contains bugs that were not picked up on by developers | Quality | Good programming practices and testing | Fix code and retest | 6 | 3 | 18 |
| 3 | Faulty Hardware | The Arduino unit given does not function as it should | Quality | Have backup Arduino | Replace Unit | 4 | 7 | 28 |
| 4 | Lack of technical skills | Team member does not have the skills required to develop the system | Personal | N/A | Ensure member is educated on how to perform the required tasks | 5 | 8 | 40 |
| 5 | Team Member not available | Team member becomes ill/leaves unit/cannot contribute | Personal | N/A | Contact unit faculty and resolve | 2 | 8 | 16 |
| 6 | False positive intruder | The system detects an intruder when there isn’t one | Quality/Personal | Ensure good coding and that voters understand how to use system. | Fix code/educate users | 5 | 5 | 25 |
| 7 | System fails | Does not operate as intended or perform the required functions | Quality | Ensure enough time is allocated to the project and testing is done incrementally. | Fix code and perform extensive testing | 2 | 9 | 18 |