**Risk register**

**Impact: Extreme, high, moderate, nominal, minimal.**

**Likelihood: Very likely, likely, may, unlikely, very unlikely.**

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| Risk description | Likelihood | Impact | How to avoid | What to do if happen |
| Conflicts between team members | Unlikely | Extreme | Keep positive communications, exchange opinions frequently. | Seek agreement.  Talk to tutor/lecturer if conflict is unsolvable within group. |
| Project crush due to bugs | Likely | Extreme | Perform multiple tests on the project. | Perform debugging on the code. |
| Lack of support from the provider | Very likely | Nominal | Perform research on the service provider that we are planning to use, to check how much support are available to us. | Since the project has a relatively small scope, some individual research would be able to solve the problem encountered. |
| Misunderstood the project requirements | Likely | High | Clarify all requirements with tutor, ask any questions as soon as possible. | Check with tutor about requirements, and modify the project. |
| Cyberattack | Unlikely | Moderate | Make sure the cloud server is secure enough for the data we store. | Increase security measures of our code, such as encryption on the data stored. |
| Outage | May | Nominal | Choose more reliable providers, but still cannot avoid it, so make good contingency plan. | Require the data until the service provider fix the problem. |
| Loss of team member | Very unlikely | High | Members should all give notice beforehand if they are planning to leave the team. | Make sure the leaving member leave record of work done, so the team can still work on them. |
| Scope creep | Very unlikely | Nominal | Check the project scope with client. Make sure no new requirements will be added during development. | Evaluate the feasibility of new requirements, add in if possible; if infeasible, inform client about it. |
| Team member unable to work (due to sickness etc) | Likely | High | All team members need to keep a work-life balance while working on the project. | The other member will work on his/her part, and do additional work if possible. |
| Team member not contributing | Unlikely | Extreme | Make sure members are motivated, keep communications between members. | Talk to the lecturer immediately to know what to do next. |
| Project development falls behind schedule | May | High | Make good scheduling and make sure members all follow it. | All members should leave other works behind and focus on this project before its due date. |
| Motion sensor crash/lost | May | Moderate | Keep motion sensor in a safe place, avoid collision. | Ask the lecturer for a new one.  Borrow a motion sensor from other teams if possible. |