Risk Log

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| Risk | Risk Description | Status | Response |
| Feb. 04 |  |  |  |
| Requirement cost efficiency is not clear | We could not determine the exact cost range the stakeholder could accept, which impact our way of designing. | Pending (still pending march 9) (Resolved March 23) | Current solution is to estimate the cost based on research, waiting for stakeholder’s reply.  Stakeholder has responded with a price range. |
| Why stakeholders are so specific about tracking | To balance the cost, we assumed that tacking is not the final requirements, but a method to prevent sheep loss. We decide on that the sheep loss is the final goal. | Pending (still pending march 9) (Resolved March 23) | After consulting the FaCs and doing rigorous analysis, we believe this decision will not cause too much risk, we are still waiting for stakeholder’s response.  Stakeholder has responded and tracking IS a requirement. |
| Mar. 9 |  |  |  |
| Scoping of the widget assignment is relatively lax | We only chose to incorporate two sensors and two actuators that are relatively simple to implement | Resolved | We decided that this was acceptable as a team since we were all busy and the design does meet the requirements. |
| Case ordering from MyFab may take too long | Since we need to 3D print a case, we need to submit the design early | Resolved | The case was submitted and printed on time thanks to the group being aware of the risks. Also, an extension to the deadline helped to ease time troubles. |
| Infrared sensor has a melted cap on it | When testing sensors, faulty wiring made the sensor overheat and melt the cap. | Resolved | It was found that the sensor still worked, so it was used in the final design. |
| Mar 23 |  |  |  |
| Waveshare GPS module does not work | There is no documentation online, and when the code was finally imported onto the pico, the GPS module was unable to position despite multiple attempts in different outdoor spaces | Resolved | The Waveshare GPS module does not work so we will attempt to use GPS tracking using the bluefruit module. |
| Backend database cannot function without knowledge of the data types passed through | Location data, sheep ID all have their own data types, and without the front end figured out it is hard to create a functional database | Pending GPS module completion (see above) | The backend can be completed at a later time, although awareness of this risk should put pressure on the front end completion. |
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