

ID	Risk Description	Likelihood	Impact	Severity	Owner	Mitigation	Status
1	Disapproval of project topic by supervisor	Low	Medium	Low	Utsav Sapkota	Tweak the topic such that it reflects substantial research material, shows product development feasibility, bears solution to real world problems and is sufficiently challenging as well as exciting to execute.	Closed
2	Underestimation of required budget and materials	Medium	Medium	High	Utsav Sapkota	Devise alternative method for cost estimation and budget review with addition of risk budget (+20% of calculated budget) that may be required in case of both precededented as well as unprecedented impedance to the project.	Open
3	Delays and difficulties in obtaining shipment of required materials	Medium	High	High	Utsav Sapkota	Pre-ordering of infrequently shipped materials which may be difficult to find as is demanded by the project (NodeMCU-ESP32 chip) and looking for alternative source, having a proper contingency planning and budgeting for emergency shipment.	Closed

4	Loss of data in local machine	Low	High	High	Utsav Sapkota	Have backup in One Drive provided by Leeds Beckett University and upload works regularly and have a hardcopy of rough work. Become mindful of possibility of sudden technical failure so that regular backup is done.	Closed
5	Error in date estimation and project scheduling	Low	High	High	Utsav Sapkota	Make a contingency plan. Have wide vision of the project. Understand workflow and time required for each step of the project and management time accordingly. Create a new time model and revise the date estimation and scheduling if required.	Open
6	Personal health crisis	Medium	High	High	Utsav Sapkota	Prevent health crisis by maintaining health and hygiene, regular health check-ups for preventing health crisis. Although one should also plan for unprecedented health crisis and apply a health insurance plans and policy.	Open

7	Additional hardware requirement	High	Medium	Medium	Utsav Sapkota	Some hardware may not be compatible with the other items that are needed for completion of the project and may halt the progress for a pronged period. It is essential to have connection in multiple hardware stores or make hardware available through public relations. This may incur bespoke costing to actual budget and is covered by 20% of allocated risk budget.	Open
8	Chosen server platform unsuitable for project completion	Low	Medium	Low	Utsav Sapkota	Chosen server platform is suitable. Mitigate the space error by coding concisely in order to make the product in expected budget.	Closed
9	Electricity / Internet unavailability	High	Medium	Medium	Utsav Sapkota	Have backup internet availability as a form of mobile data plan. Have backup battery for workstation and other used devices. Install a UPS (Uninterrupted Power Supply Unit) or inverter in case of power cuts.	Open

10	System design failure	Low	High	High	Utsav Sapkota	Seek proper guidance from supervisor. Seek out advice from experts or seniors of the same field for review of design and seek solution through multiple revisions.	Open
11	Technical failure	Medium	Medium	High	Utsav Sapkota	Proper coding and having spare parts for replacement of damaged hardware. Safe storage of sensors and avoid overheating or damage due to moisture, dust or static electricity. Consult hardware experts for failures. Use compatible devices and be mindful of voltage and current rating while installing.	Open

Notes:

ID values may be useful to refer back to in your final documentation. Number these in order. This register should be included in the appendix

Risk description provides an outline of the issue

Please use Low, Medium and High to identify the risk level and colour code.

Typically the owner will be you, but it maybe the case in team work or other projects that have external clients, other activities may impact on the project

Mitigation implies on how you will manage the risk and to reduce the likelihood of it occurring

Status – has the risk event now passed. It should indicate an Open and Closed status.