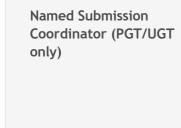
# Submission **Submission Ref** 53021 Status New Submission Coordinator Name elisha.dhungana elisha.dhungana **Email** elisha.dhungana@northumbria.ac.uk **Faculty** Engineering and Environment Department Computer and Information Sciences **Submitting As** PGT - Postgraduate Taught student Externally Approved Note: ONLY tick this box if your project has already received full ethical approval from an external organisation Tick this box if staff and this submission refers to an entire module. Module Level Approval \*\* Only to be used for low or medium risk projects as categorised by the diagnostic risk question set \*\* Module Code LD7022 Help **Module Tutor** Ning Tse Find Help Clear Titl... Programme Leader Dep... Vice Chancellors Office Em... ning.tse@northumbria.ac.uk **Research Supervisor** Find Ning Tse Help Clear Titl... Programme Leader Dep... Vice Chancellors Office

Em... ning.tse@northumbria.ac.uk







Help

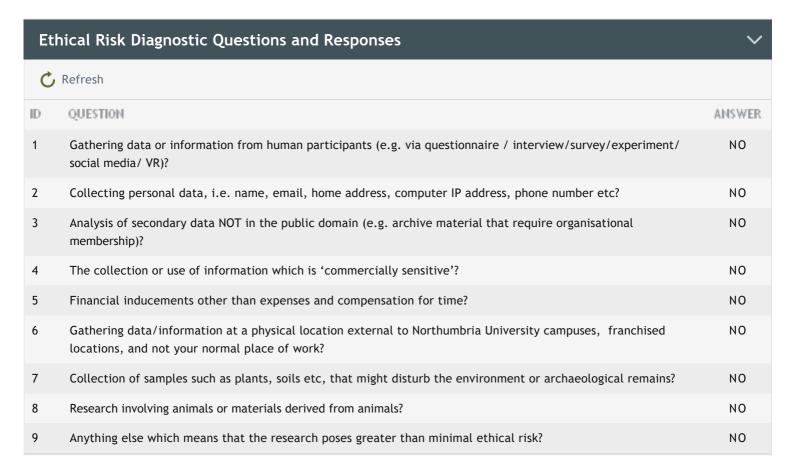
### Clear

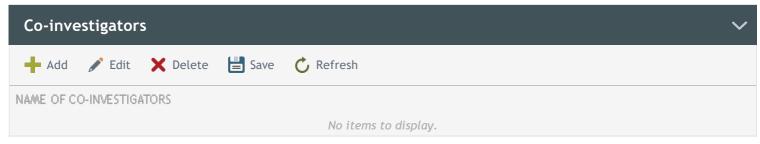
If you are an undergraduate or postgraduate taught student please select a Named Submission Coordinator. If you are not sure who this is please contact your Module tutor or Supervisor as appropriate.

**Ethical Risk Level** 

Low

Click here to answer the ethical risk questions







### **Outline General Aims and Research Objectives**

State your research aims/questions (maximum 500 words). This should provide the theoretical context within which the work is placed, and should include an evidence-based background, justification for the research, clearly stated hypotheses (if appropriate) and creative enquiry.

#### Aims:

The aim of this proposed system is to investigate on Anti-theft IOT based Home/Office Security system and to develop a user solution application that supervises the security of the items in real-time if someone attempts to steal or changes the position.

#### Objectives:

- $\neg$  To study and investigate about the IOT based security system using Arduino UNO and research about the appropriate sensors to develop the actual system.
- $\neg$  To compare and evaluate between Arduino and Raspberry pi framework of IOT which are applicable for the design of IOT based Anti-theft Security System.
- $\neg$  To design a security system model that can buzz an alarm whenever someone attempts to steal or move the position of item.
- ¬ To develop and analyze the integration of mobile apps with IOT sensor using react native framework for both Android and IOS platform which can send the user an immediate SMS alert in the event of an external occurrence, such a theft.

## G2: Research Activities (Mandatory)

## **~**

### Please give a detailed description of your research activities

Please provide a description of the study design, methodology (e.g. quantitative, qualitative, practice based), the sampling strategy, methods of data collection (e.g. survey, interview, experiment, observation, participatory), and analysis. Do sensitive topics such as trauma, bereavement, drug use, child abuse, pornography, extremism or radicalisation inform the research? If so have these been fully addressed?

Qualitative

## G3: Research Data Management Plan (Mandatory)

### **\**

### **Anonymising Data (mandatory)**

Describe the arrangements for anonymising data and if not appropriate explain why this is and how it is covered in the informed consent obtained.

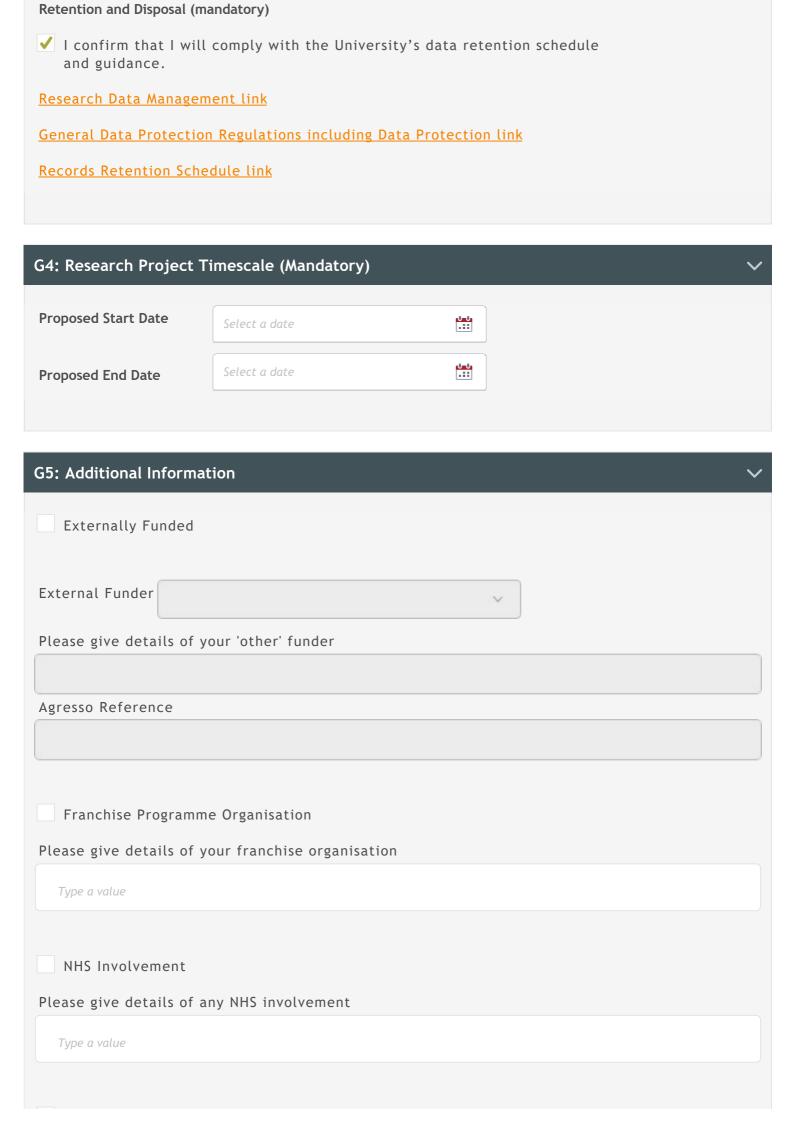
No anonymising data

### Storage Details (mandatory)

Describe the arrangements for the secure transport and storage of data collected and used during the study. You should explain what kind of storage you intend to use, e.g. cloud-based, portable hard drive, USB stick, and the protocols in place to keep the data secure.

If you have identified the requirement to collect 'Special category data', please specify any additional security arrangements you will use to keep this data secure.

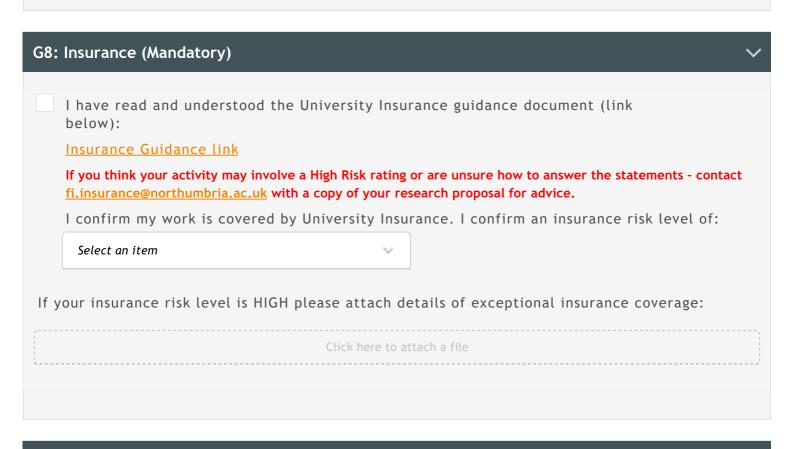
Cloud based

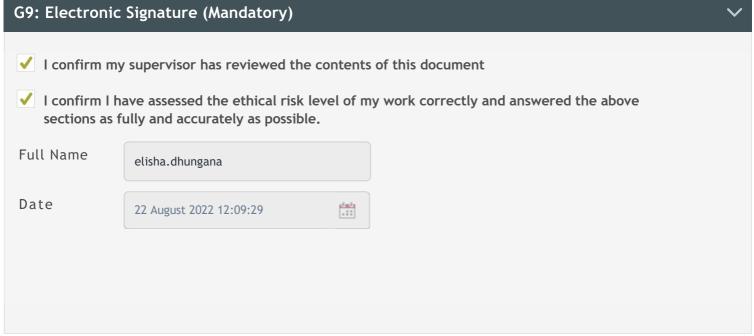


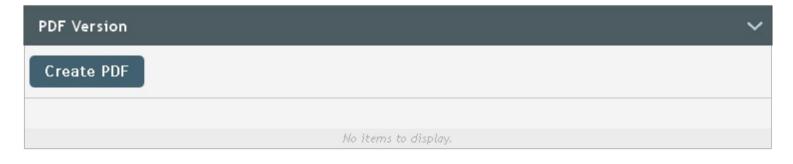
Cl	inical Trial(s)
Pleas	e give details of any Clinical Trial(s)
Тур	pe a value
Medicinal Products	
Pleas	e give details of any Medicinal Product(s)
G6: Fi	ile Attachments
	ional files can be uploaded e.g. consent documentation, participant information sheet, etc.
Go To Attachments	
G7: Health and Safety (Mandatory)	
	I confirm that I have read and understood the University's Health and Safety Policy.
	I confirm that I have read and understood the University's requirements for the mandatory completion of risk assessments in advance of any activity involving potential physical risk.
	The University Health and Safety Policy can be accessed here
Dloose	The University Risk Assessment Code of Practice can be accessed here
Please	There are PHYSICAL ricks associated with the research project work and I confirm that a rick
	There are PHYSICAL risks associated with the research project work and I confirm that a risk assessment has been approved and attached to this ethics submission.
OR	
	I can confirm that there are no physical risks associated with this project and so no risk assessments are required.
Students requiring assistance with completing their risk assessment should get in touch with their supervisor or module tutor as the first point of contact. If further assistance is needed, the Faculty Technician can provide further guidance.	
For more specific risk assessments (e.g. lab work), especially where the project is Medium or High risk, you are required to consult the Faculty Technical Manager; your Supervisor/Module Tutor will be able to put you in touch.	

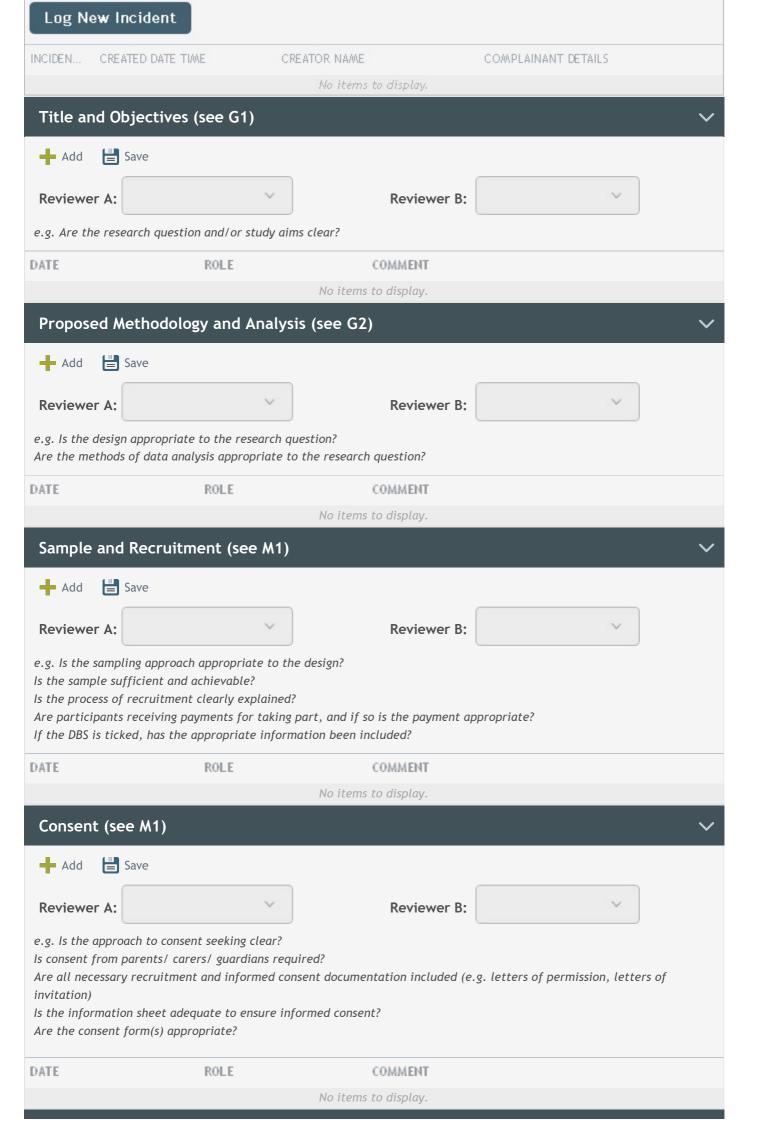
If you have any questions or concerns, please contact the University Health and Safety Team by emailing

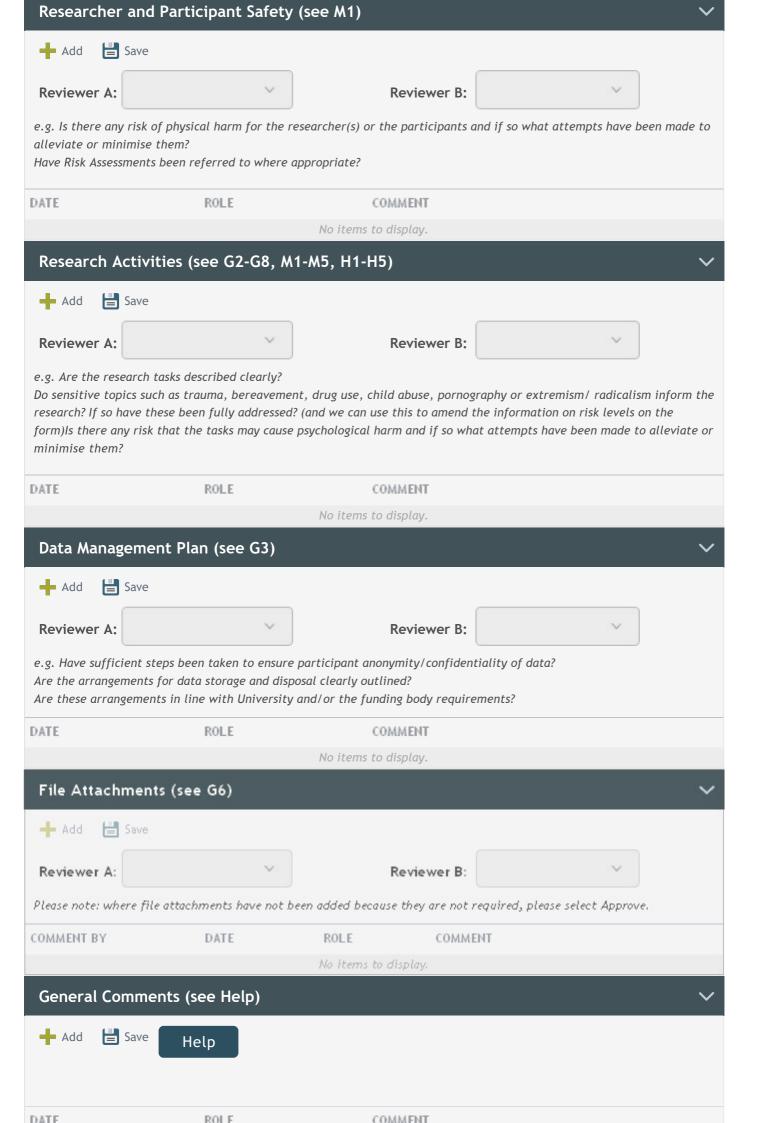
CRHealthandSafety@northumbria.ac.uk











The comment

No items to display.