


Submission


Submission Ref 53021

Status New

Submission Coordinator

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Faculty Department Submitting As 

Externally Approved ☐ **Note: ONLY tick this box if your project has already received full ethical approval from an external organisation**

Module Level Approval ☐ *Tick this box if staff and this submission refers to an entire module.*

**** Only to be used for low or medium risk projects as categorised by the diagnostic risk question set ****

Module Code [Help](#)

Module Tutor

[Find](#)[Help](#)[Clear](#)

Titl... Programme Leader

Dep... Vice Chancellors Office

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

Research Supervisor

[Find](#)[Help](#)[Clear](#)

Titl... Programme Leader

Dep... Vice Chancellors Office

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

Named Submission
Coordinator (PGT/UGT
only)

ning.tse@northumbria.ac.uk

Find

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](#)

Ethical Risk Diagnostic Questions and Responses

 Refresh

ID	QUESTION	ANSWER
1	Gathering data or information from human participants (e.g. via questionnaire / interview/survey/experiment/ social media/ VR)?	NO
2	Collecting personal data, i.e. name, email, home address, computer IP address, phone number etc?	NO
3	Analysis of secondary data NOT in the public domain (e.g. archive material that require organisational membership)?	NO
4	The collection or use of information which is 'commercially sensitive'?	NO
5	Financial inducements other than expenses and compensation for time?	NO
6	Gathering data/information at a physical location external to Northumbria University campuses, franchised locations, and not your normal place of work?	NO
7	Collection of samples such as plants, soils etc, that might disturb the environment or archaeological remains?	NO
8	Research involving animals or materials derived from animals?	NO
9	Anything else which means that the research poses greater than minimal ethical risk?	NO

Co-investigators

 Add  Edit  Delete  Save  Refresh

NAME OF CO-INVESTIGATORS

No items to display.

G1: General Aims and Research Design (Mandatory)

Title

Title of your research project

An IOT based Anti-theft Security System

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.

A i m s :

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:

- To study and investigate about the IOT based security system using Arduino UNO and research about the appropriate sensors to develop the actual system.
- 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.
- 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

Retention and Disposal (mandatory)

☒ I confirm that I will comply with the University's data retention schedule and guidance.

[Research Data Management link](#)

[General Data Protection Regulations including Data Protection link](#)

[Records Retention Schedule link](#)

G4: Research Project Timescale (Mandatory)

Proposed Start Date

Select a date



Proposed End Date

Select a date



G5: Additional Information

☐ Externally Funded

External Funder



Please give details of your 'other' funder

Agresso Reference

☐ Franchise Programme Organisation

Please give details of your franchise organisation

Type a value

☐ NHS Involvement

Please give details of any NHS involvement

Type a value

☐ Clinical Trial(s)

Please give details of any Clinical Trial(s)

Type a value

☐ Medicinal Products

Please give details of any Medicinal Product(s)

G6: File Attachments



Additional files can be uploaded e.g. consent documentation, participant information sheet, etc.

Please note: It is best practice to combine all documents into one PDF (This avoids the reviewer having to op...

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](#)

The University Risk Assessment Code of Practice can be accessed [here](#)

Please confirm either:

☐ 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

G8: Insurance (Mandatory)

☐ I have read and understood the University Insurance guidance document (link below):

[Insurance Guidance link](#)

If you think your activity may involve a High Risk rating or are unsure how to answer the statements - contact fi.insurance@northumbria.ac.uk with a copy of your research proposal for advice.

I confirm my work is covered by University Insurance. I confirm an insurance risk level of:

Select an item



If your insurance risk level is HIGH please attach details of exceptional insurance coverage:

Click here to attach a file

G9: Electronic Signature (Mandatory)

☒ I confirm my supervisor has reviewed the contents of this document

☒ I confirm I have assessed the ethical risk level of my work correctly and answered the above sections as fully and accurately as possible.

Full Name

elisha.dhungana

Date

22 August 2022 12:09:29



PDF Version

Create PDF

No items to display.

Log of any Ethical Incidents

Log New Incident

INCIDENT... CREATED DATE TIME CREATOR NAME COMPLAINANT DETAILS

No items to display.

Title and Objectives (see G1)

+ Add  Save

Reviewer A:


Reviewer B:

e.g. Are the research question and/or study aims clear?

DATE ROLE COMMENT

No items to display.

Proposed Methodology and Analysis (see G2)

+ Add  Save

Reviewer A:

Reviewer B:


e.g. Is the design appropriate to the research question?

Are the methods of data analysis appropriate to the research question?

DATE ROLE COMMENT

No items to display.

Sample and Recruitment (see M1)

+ Add  Save

Reviewer A:

Reviewer B:

e.g. Is the sampling approach appropriate to the design?

Is the sample sufficient and achievable?

Is the process of recruitment clearly explained?


Are participants receiving payments for taking part, and if so is the payment appropriate?

If the DBS is ticked, has the appropriate information been included?

DATE ROLE COMMENT

No items to display.

Consent (see M1)

+ Add  Save

Reviewer A:

Reviewer B:

e.g. Is the approach to consent seeking clear?

Is consent from parents/ carers/ guardians required?

Are all necessary recruitment and informed consent documentation included (e.g. letters of permission, letters of invitation)

Is the information sheet adequate to ensure informed consent?

Are the consent form(s) appropriate?

DATE ROLE COMMENT

No items to display.

Researcher and Participant Safety (see M1)

 Add  Save

Reviewer A:

Reviewer B:

e.g. Is there any risk of physical harm for the researcher(s) or the participants and if so what attempts have been made to alleviate or minimise them?

Have Risk Assessments been referred to where appropriate?

DATE	ROLE	COMMENT
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No items to display.

Research Activities (see G2-G8, M1-M5, H1-H5)

 Add  Save

Reviewer A:

Reviewer B:

e.g. Are the research tasks described clearly?

Do sensitive topics such as trauma, bereavement, drug use, child abuse, pornography or extremism/ radicalism inform the research? If so have these been fully addressed? (and we can use this to amend the information on risk levels on the form)Is there any risk that the tasks may cause psychological harm and if so what attempts have been made to alleviate or minimise them?

DATE	ROLE	COMMENT
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No items to display.

Data Management Plan (see G3)

 Add  Save

Reviewer A:

Reviewer B:

e.g. Have sufficient steps been taken to ensure participant anonymity/confidentiality of data?



Are the arrangements for data storage and disposal clearly outlined?

Are these arrangements in line with University and/or the funding body requirements?

DATE	ROLE	COMMENT
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No items to display.

File Attachments (see G6)

 Add  Save

Reviewer A:

Reviewer B:

Please note: where file attachments have not been added because they are not required, please select Approve.

COMMENT BY	DATE	ROLE	COMMENT
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No items to display.

General Comments (see Help)

 Add  Save [Help](#)

DATE	ROLE	COMMENT
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No items to display.