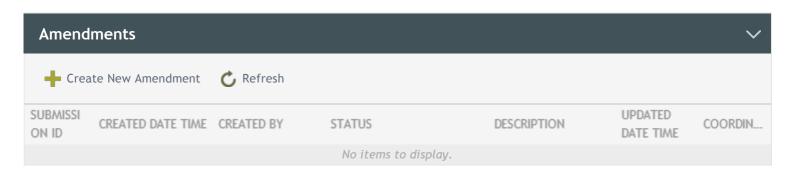
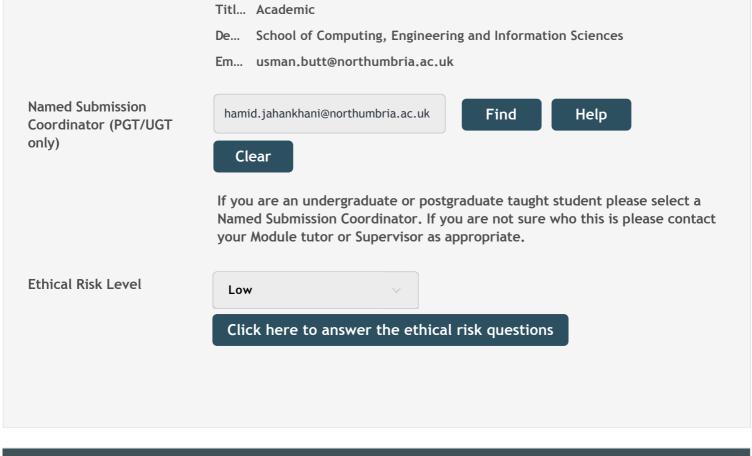
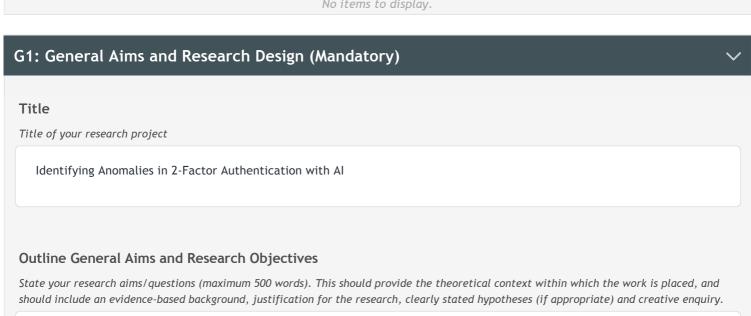
My Documents



Submission				
Submission Ref	32731			
Status	Approved			
Submission Coordinator	Hamid Jahankhani hamid.jahankhani@northumbria.ac.uk			
Name	qumer.arshad qumer.arshad			
T (dill)	quinci ai sindo			
Email	qumer.arshad@northumbria.ac.uk			
Faculty				
racuity	Engineering and Environment			
Department	Computer and Information Sciences			
·	compact 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			
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	LD7028 Help			
	LD7028 Help			
Module Tutor	Hamid Jahankhani Find Help Clear			
	Traine Sanarikiani Treip Clear			
	Titl Staff at Partner Institute			
	De Campus Services			
	Em hamid.jahankhani@northumbria.ac.uk			
Research Supervisor				
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To develop a third approval layer including arranged Machine Learning models prepared to perceive peculiarities after the main affirmation stage.

Development of the 2FA testing Playground Dataset Finalization and Pre-processing Development of the Machine Learning Layer Data Analytics using Statistical Tools and Graphs Performance Testing in the Playground

G2: Research Activities (Mandatory)

V

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?

The project has two basic modules. The modules are as follows:

The 2FA Playground

The 2FA playground will be, as the name suggests, a playground for testing and experimenting in this project. The playground will be enabled with two main features i.e., the 2FA auth. and request tracking. The language used for this research project will be Python, and for the development of this 2FA playground which is basically a web application, Flask, a python web framework will be employed. The reason behind using Python for the complete project is because it is much easier to implement Machine Learning models on Python with the currently available vast collection of easy-to-use libraries and tools for Machine Learning. Since the Machine Learning Model is implemented in Python, to integrate the model with a web interface will be a lot more forgiving if the web interface itself was built out of Python.

The 2FA Playground provides a platform where the user can edit and make changes in the code or change the Machine Learning model or the data set accordingly while providing a self-built dummy 2FA verification system independent of any third-party interference to keep the results and performance as unbiased and efficient as possible. The web app uses simple HTML pages only containing a form that take in the user's phone number and send him a verification code to verify it on the other form. The application uses page routing to provide other useful information for debugging as well.

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.

We are not gathering data from any user/ third party. The project will introduce third layer of two factor authentication using machine learning for that we will make our own dummy website so it will create new dummy data. No external user will be involved.

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.

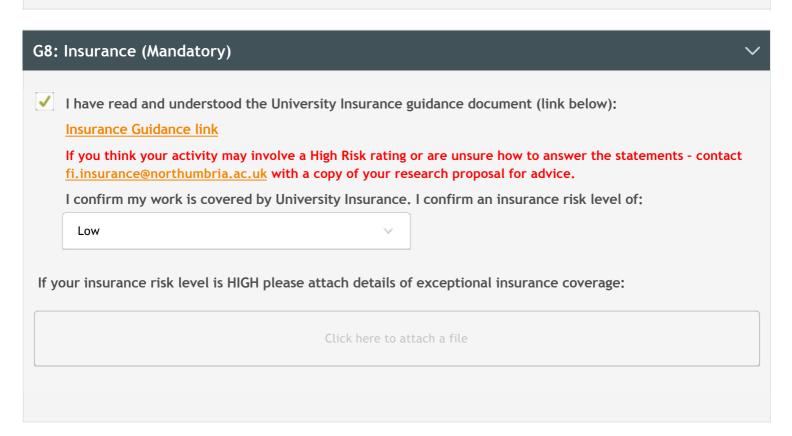
The 2FA playground also cr		egression algorithm on a dummy data set created for this research. that records the user requests information in a .txt file that contains		
Retention and Disposal (m	nandatory)			
I confirm that I will co guidance.	omply with the University	y's data retention schedule and		
Research Data Manageme	nt link			
General Data Protection Regulations including Data Protection link				
Records Retention Schedule link				
G4: Research Project ⁻	Timescale (Mandatory	v)	~	
on Research Project	i ilileseate (mariaacor y		·	
Proposed Start Date	10/05/2021			
Proposed End Date	11/05/2021	**************************************		
G5: Additional Informa	ition		V	
Externally Funded				
External Funder				
Please give details of you	r 'other' funder			
Agresso Reference				
Franchise Programme	Organisation			
Please give details of your franchise organisation				
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NHS Involvement				
Please give details of any	NHS involvement			

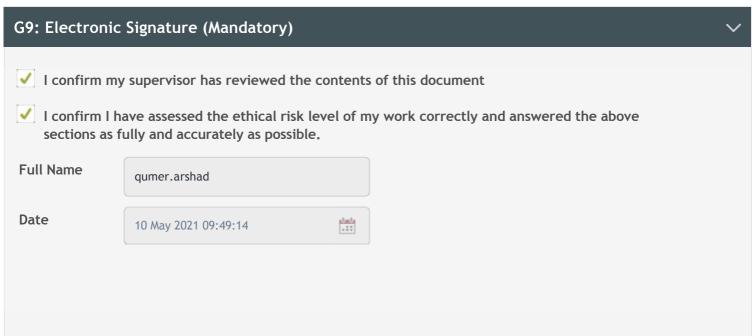
Туре	e a value
Cli	inical Trial(s)
Please	give details of any Clinical Trial(s)
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Туре	e a value
Me	edicinal Products
Please	give details of any Medicinal Product(s)
G6: Fi	le Attachments V
	onal files can be uploaded e.g. consent documentation, participant information sheet, etc.
Please	note: It is best practice to combine all documents into one PDF (This avoids the reviewer having to op
Go T	To Attachments
G7: H	ealth 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 <u>here</u>
	The University Risk Assessment Code of Practice can be accessed here
<u>Please</u>	e 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.
	nts requiring assistance with completing their risk assessment should get in touch with their supervisor

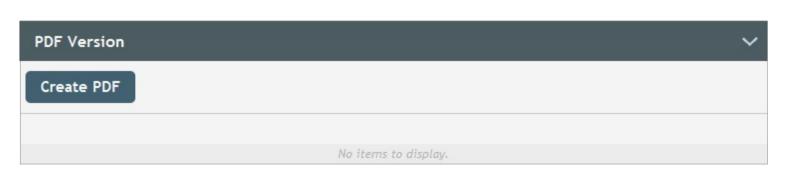
provide further guidance.

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







Review Comments, Conditions and Outcomes

