**Research Ethics Approval Form:**

All students conducting research activity that involves human participants or the use of data collected from human participants are required to gain ethical approval before commencing their research. Please answer all relevant questions and note that your form may be returned if incomplete.

For further support and guidance please see your respective Unit Tutor.

**Before completing this form, we advise that you discuss your proposed research fully with your Unit Tutor. Please complete this form in good time before your research project is due to commence.**

|  |
| --- |
| **Section One: Basic details** |
| Project title: Enhancing Big Data Security through 3DES Implementation at ATG .....................................................................................................................................................  Student name: Farouq Hassan ...................................................................................................  Student number: 21110528.....................................................................................................  Programme: Computing research project....................................................................................  School: HTU....................................................................................................................  Intended research start date: 30/10/2023............................................  Intended research end date: 28/1/2024 ............................................ |
| **Section Two: Project summary** |
| Please select all research methods that you plan to use as part of your project:  • Interviews  • Questionnaires  • Observations  • Use of personal records  • Data analysis  • Action research  • Focus groups  • Other (please specify): Online Surveys ..........................................................................  ………………………………………………………………………………………….. |
| **Section Three: Participants** |
| Please answer the following questions, giving full details where necessary.  Will your research involve human participants? YES  Who are the participants? Tick all that apply:  Children aged 12–16: □  Young people aged 17–18: □  Adults: □  How will participants be recruited (identified and approached)?  Participants will be volunteers via email invitations sent to ATG employees, after taking permission from ATG management.  Describe the processes you will use to inform participants about what you are doing:  How will you obtain consent from participants? Will this be written? How will it be made clear to participants that they may withdraw consent to participate at any time?  Participants will be informed about the research through an information sheet included in the survey, detailing the study's purpose, and what the participation involves, and confidentiality measures, and their right to pull out.  **Studies involving questionnaires:**  Will participants be given the option of omitting questions they do not wishto answer?  Yes: □ No: □  If No, please explain why below and ensure that you cover any ethical issues arising from this:  **Studies involving observation:**  Confirm whether participants will be asked for their informed consent to be observed.  Yes: □  No: □  Will you debrief participants at the end of their participation (i.e. give them a brief explanation of the study)?  Yes: □  No: □  Will participants be given information about the findings of your study? (This could be a brief summary of your findings in general.)  Yes: □  No: □ |
| **Section Four: Data storage and security** |
| Confirm that all personal data will be stored and processed in compliance with the Data Protection Act (1998):  Yes: □  No: □  Who will have access to the data and personal information?  Only the research team (and in this case me and dr.eyad and the instructor) will have access to the data for analysis purposes.  **During the research:**  Where will the data be stored?  Data will be stored in a password-protected file on my laptop.  Will mobile devices (such as USB storage and laptops) be used?  Yes: □  No: □  If yes, please provide further details:  **After the research:**  Where will the data be stored?  Data will be stored in a file on a secure university server (the research itself), the other data like surveys and other parts will be deleted  How long will the data and records be kept for and in what format?  It will be deleted after a week from finishing the project  Will data be kept for use by other researchers?  Yes: □  No: □  *If yes, please provide further details:* |
| **Section Five: Ethical issues** |
| Are there any particular features of your proposed work which may raise ethical concerns? If so, please outline how you will deal with these:  It is important that you demonstrate your awareness of potential risks that may arise as a result of your research. Please consider/address all issues that may apply. Ethical concerns may include, but are not limited to the following:   * Informed consent. * Potentially vulnerable participants. * Sensitive topics. * Risks to participants and/or researchers. * Confidentiality/anonymity. * Disclosures/limits to confidentiality. * Data storage and security, both during and after the research (including transfer, sharing, encryption, protection). * Reporting.   Dissemination and use of your findings.  Informed consent, and confidentiality, and data security are primary ethical concerns in this project. These ethical concerns will be addressed by ensuring that the participants are fully informed, and that the data is totally anonymized and cant be known, and it stored securely. |
| **Section Six: Declaration** |
| I have read, understood and will abide by *[insert centre name]* Research Ethics Policy:  Yes: □  No: □  I have discussed the ethical issues relating to my research with my Unit Tutor:  Yes: □  No: □  **I confirm that to the best of my knowledge:**  The above information is correct and that this is a full description of the ethics issues that may arise in the course of my research.  Name: Farouq Hassan ..............................................................................................................  Date: 28/1/2024...................................................................................  **Please submit your completed form to:** ................................................................................................................................................ |