If any of the questions in Sections IV(B) and/or IV(C) and/or IV(D) is answered ‘yes’, a full ethics application must be made to the REAG. This also applies for studies not defined as ‘research’ in the narrow sense, i.e. evaluations/audits, etc. Complete this form and send it to the Faculties Support Office along with supporting documentation: a copy of the full research proposal; any participant information sheets and consent forms; any surveys, interview schedules; any advertising material or proposed website wording. **It is important to note that you must not commence any research with human participants until full approval has been given by the Research Ethics Advisory Group – you will be notified via email when this has been granted.**

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| **During term time we aim to process a research ethics application within two weeks, however during vacation periods and busy times (e.g. exams and marking period) it can take up to four weeks.**  It is the applicant's responsibility to ensure that their application is submitted in good time. |
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| **Overview** |
| Name of Applicant(s) |
| Alice Jaffray (aj418) & Conor Finn (cf333) |
| Contact Details (Please include your UoK address, email and telephone number) |
| [aj418@kent.ac.uk](mailto:aj418@kent.ac.uk) , [cf333@kent.ac.uk](mailto:cf333@kent.ac.uk) , 07722963935 , 07506923969 , 23 Westgate Court Avenue CT2 8JR |
| Title of Project |
| Serious Cyber Security: Building Games to Educate University Students about Security |
| Lay Summary (Please provide a brief summary of the study) |
| This project aims to develop a game that supports university students learning about cyber security (e.g. security attacks, risk management and usable security). The goal of the study is to obtain the participants knowledge and feelings about their learnings on the CO634 module before and after playing the game. |
| Name of Supervisor(s) (If applicable) |
| Dr Jason Nurse |

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| **Risks and ethical issues** |
| Please list the principal inclusion and exclusion criteria |
| Inclusion, University students currently undertaking Computer Security and Cryptography (CO634) will be the only people allowed to participate. This is because those without the knowledge from lectures would skew the results. They will need access to a web browser. Inclusion, friends and family members of the investigators to get feedback on the game from those without the technical knowledge of the students. |
| How long will each research participant be in the study in total, from when they give informed consent until their last contact with the research team? |
| 1 hour |
| What are the potential risks and burdens for research participants and how will you minimise them? (Describe any risks and burdens that could occur as a result of participation in the research, such as pain, discomfort, distress, intrusion, inconvenience or changes to lifestyle. Describe what steps would be taken to minimise risks and burdens as far as possible) |
| The participant will be required to stare at a computer screen which could result in eye fatigue. The participant will be encouraged to take regular breaks to help prevent this from occurring. |
| Please describe what measures you have in place in the event of any unexpected outcomes or adverse effects to participants arising from involvement in the project |
| The research will take place during a lecture support session on Teams, where help will be available, and the participant is free to stop/leave at any time during the session. |
| Will interviews/questionnaires or group discussions include topics that might be sensitive, embarrassing or upsetting, or is it possible that criminal or other disclosures requiring action could occur during the study? |
| No |
| If yes, please describe the procedures in place to deal with these issues |
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| What is the potential benefit to research participants? |
| After participating they will be more confident in their knowledge of cybersecurity from the CO634 lectures. The participant will come out of the study with the means to revise for the CO634 exam. |
| What are the potential risks to the researchers themselves? |
| No potential risks to researchers |
| Will there be any risks to the University? (Consider issues such as reputational risk; research that may give rise to contentious or controversial findings; could the funder be considered controversial or have the potential to cause reputational risk to the University?) |
| There is no foreseen risk to the University. |
| Will any intervention or procedure, which would normally be considered a part of routine care, be withheld from the research participants? (If yes, give details and justification). For example, the disturbance of a school child’s day or access to their normal educational entitlement and curriculum). |
| Yes, instead of the planned lecture support session, the students will partake in the research. The justification for this is that the material covered in the game will consolidate the learnings of the previous lectures, which is the aim of a lecture support session. |

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| **Recruitment and informed consent** |
| How and by whom will potential participants, records or samples be identified? |
| The participants will be students studying at the University of Kent and on the CO634 module. The study will be announced via email to the students. The study will be announced to friends and family members by asking them to ask their friends/family if they would participate. |
| Will this involve reviewing or screening identifiable personal information of potential participants or any other person? (If ‘yes’, give details) |
| No |
| Has prior consent been obtained or will it be obtained for access to identifiable personal information? |
| Consent will be obtained when an individual expresses interest in participating as well as before the study. |
| Will you obtain informed consent from or on behalf of research participants? (If ‘yes’ please give details. If you are not planning to gain consent, please explain why not). |
| Consent will be obtained using a paper consent form, consent will also be confirmed directly before participation. |
| Will you record informed consent in writing? (If ‘no’, how will it be recorded?) |
| No, consent will be recorded electronically, by filling out the consent form online. |
| How long will you allow potential participants to decide whether or not to take part? |
| Participants will have a week to decide if they to take part, if they do not respond within that time period they will no longer be contacted. |
| What arrangements have been made for persons who might not adequately understand verbal explanations or written information given in English, or have special communication needs? (eg, translation, use of interpreters?) |
| As the participants will be University of Kent students or friends/family they will more than likely have the necessary communication needs. |
| If no arrangements will be made, explain the reasons (eg, resource constraints) |
| This is due to a lack of funding/sponsors/resources. |

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| **Confidentiality** |
| *In this section personal data means any data relating to a participant who could potentially be identified. It includes pseudonymised data capable of being linked to a participant through a unique code number.* |
| If you will be undertaking any of the following activities at any stage (including in the identification of potential participants) please give details and explain the safeguarding measures you will employ   * Electronic transfer by magnetic or optical media, email or computer networks * Sharing of personal data outside the European Economic Area * Use of personal addresses, postcodes, faxes, emails or telephone numbers * Publication of direct quotations from respondents * Publication of data that might allow identification of individuals, either directly or indirectly * Use of audio/visual recording devices * Storage of personal data on any of the following:   + Manual files   + University computers   + Home or other personal computers   + Private company computers   + Laptop computers |
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| How will you ensure the confidentiality of personal data? (eg, anonymisation or pseudonymisation of data) |
| To ensure the confidentiality of personal data, all data will be anonymised. |
| Who will have access to participants’ personal data during the study? |
| Alice Jaffray and Conor Finn will have access to the participants’ personal data during the study. |
| How long will personal data be stored or accessed after the study has ended? (If longer than 12 months, please justify) |
| One year until the results are published. |
| Please note: as best practice, and as a requirement of many funders, where practical, researchers must develop a data management and sharing plan to enable the data to be made available for re-use, eg, for secondary research, and so sufficient metadata must be conserved to enable this while maintaining confidentiality commitments and the security of data. |

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| **Incentives and payments** |
| Will research participants receive any payments, reimbursement of expenses or any other benefits or incentives for taking part in this research? (If ‘yes’, please give details) |
| No |
| Will individual researchers receive any personal payment over and above normal salary, or any other benefits or incentives, for taking part in this research? (If ‘yes’, please give details) |
| No |
| Does the Chief Investigator or any other investigator/collaborator have any direct personal involvement (e.g. financial, share holding, personal relationship, etc) in the organisations sponsoring or funding the research that may give rise to a possible conflict of interest? (If ‘yes’, please give details) |
| No |

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| **Publication and dissemination** |
| How do you intend to report and disseminate the results of the study? If you do not plan to report or disseminate the results please give your justification |
| The results of this study will be disseminated in a technical report document which will be submitted as a deliverable for the Group Project (CO600) module. |
| Will you inform participants of the results? (Please give details of how you will inform participants or justify if not doing so) |
| The participants will not be notified about the results as their information is deleted once they have completed the study. The participants may get in contact with the researcher however to get an overview of the project findings. |

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| **Management of the research** | | |
| Other key investigators/collaborators. (Please include all grant co-applicants, protocol authors and other key members of the Chief Investigator’s team, including non-doctoral student researchers) | | |
| N/A | | |
| Has this or a similar application been previously rejected by a research Ethics Committee in the UK or another country? (If yes, please give details of rejected application and explain in the summary of main issues how the reasons for the unfavourable opinion have been addressed in this application) | | |
| No | | |
| How long do you expect the study to last? | | |
| * Planned start date:   22/02/2021 | * Planned end date:   26/02/2021 | * Total duration: 1 week |
| Where will the research take place? | | |
| The research will take place online. | | |

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| **Insurance/indemnity** |
| Does UoK’s insurer need to be notified about your project before insurance cover can be provided?  *The majority of research carried out at UoK is covered automatically by existing policies, however, if your project entails more than usual risk or involves an overseas country in the developing world or where there is or has recently been conflict, please check with the Insurance Office that cover can be provided. Please give details below.* |
| No |

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| **Children** |
| Do you plan to include any participants who are children under 16? (If no, go to next section) |
| No |
| Please specify the potential age range of children under 16 who will be included and give reasons for carrying out the research with this age group |
| N/A |
| Please describe the arrangements for seeking informed consent from a person with parental responsibility and/or from children able to give consent for themselves |
| N/A |
| If you intend to provide children under 16 with information about the research and seek their consent or agreement, please outline how this process will vary according to their age and level of understanding |
| N/A |

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| **Participants unable to consent for themselves** | |
| Do you plan to include any participants who are adults unable to consent for themselves through physical or mental incapacity? (If yes, the research must be reviewed by an NHS REC or SCREC) | |
| No | |
| Is the research related to the ‘impairing condition’ that causes the lack of capacity, or to the treatment of those with that condition? | |
| Yes | If ‘yes’ proceed to next question |
| No | If ‘no’ the study should proceed without involving those who do not have the capacity to consent to participation |
| Could the research be undertaken as effectively with people who do have the capacity to consent to participate? | |
| Yes | If ‘yes’ then the study should exclude those without the capacity to consent to participation |
| No | If ‘no’ then the inclusion of people without capacity in the study can be justified |
| Is it possible that the capacity of participants could fluctuate during the research? (If yes, the research must be reviewed by an NHS REC or SCREC) | |
| No | |
| Who inside or outside the research team will decide whether or not the participants have the capacity to give consent? What training/experience will they have to enable them to reach this decision? | |
| Alice Jaffray and Conor Finn will decide under the supervision and advice of the project supervisor (Dr Jason Nurse). The supervisor has conducted many studies involving human participants. | |
| What will be the criteria for withdrawal of participants? | |
| If the participants decide to withdraw, their data will be deleted this can only occur before the end of the online user-study session. These are the only criteria. | |

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| **Declaration** | |
| To be signed by the Chief Investigator   * I agree to comply, and will ensure that all researchers involved with the study comply with all relevant legislation, accepted ethical practice, University of Kent policies and appropriate professional ethical guidelines during the conduct of this research project * If any significant changes are made to the design of the research I will notify the Faculty of Sciences Research Ethics and Advisory Group (REAG) and understand that further review may be required before I can proceed to implement the change(s) * I agree that I will notify the Faculty of Sciences Research Ethics Advisory Group of any unexpected adverse events that may occur during my research * I agree to notify the Faculty of Sciences Research Ethics Advisory Group of any complaints I receive in connection with this research project | |
| Signed:  Name: | Date: |

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| **What to do next** |
| **Send your completed form, along with all supporting documentation, to the Faculties Support Office, at** [**fsoethics@kent.ac.uk**](mailto:fsoethics@kent.ac.uk)**.** |

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| **Checklist** |  |
| Please ensure you have included the following with your application (\*where relevant):   * Full research proposal (current project) * Participant information sheet * Consent form * \*Covering letter * \*Any questionnaires/interview schedules/topic guides to be used * \*Any approved instruments/measures to be used * \*Any advertising material to be used to recruit participants * \*Confirmation that project is covered by UoK insurance policies (if necessary) |  |