

SECTION 1 – Project Description

1. Title of study

Climateers: A game to educate and encourage young people's sustainable behaviour and activism

2. Dates and duration of study

September 2022 – April 2023

3. Purpose of the project including academic rationale.

Sustainable behaviours are not sufficiently nurtured in young people despite their extreme importance for tackling the climate crisis that lies in their future. This research will investigate whether creating a game designed to instil sustainable activism succeeds in encouraging action whilst remaining informative and ethical

4. Describe how participants will be recruited, how many you seek to recruit (and statistical justification if relevant), the type of participants you wish to recruit, and the inclusion and exclusion criteria.

The participants will be child behaviour specialists, Teachers, and child psychotherapists. They will be identified through personal connections and subsequent referrals. The assistance of Between 6 and 8 specialists will be utilised over the project's development. A combination of psychologists and teachers was used to ensure that the educative and influential factors of the design were equally weighted.

5. Procedures of the study.

Participants will be introduced to the concept of the game before a brief demonstration by an experienced user for approximately 3 minutes. Following this participants will now be free to play the game by themselves and experience it first-hand. Unless the participant requests additional playing time, this testing should last 10 minutes. If any relevant features were not seen or utilised by the participant, the experienced user may give a second demonstration to make clear all the features of the game.

The participants will be asked to complete an anonymous questionnaire LIKO format (strongly disagree, disagree, indifferent, agree, strongly agree), collected by the researcher to equate the overall value of the design. Following this, an interview will take place between the head researcher and the participant to gain a greater understanding of the successes and shortcomings of the procedure. The interview will consist of 5 questions and last 25 minutes. The interview will not be recorded but the researcher will take notes of participant's answers.

6. Debriefing arrangements following the study.

At the end of the experiment, the head researcher will thank participants for their engagement and inform them of the importance of their opinion and the influence it will have on aspects of the project. You will be informed of the specific goals of the particular demonstration you undertook to give a broader understanding of the questionnaire and interview.

Participants will be informed that their results will be utilised in finalising the design and influencing the conclusion basis of the report. The report will be published and free to access on the project website. We will also email the final report to all participants upon its completion.

7. A copy of the intended questionnaire/survey/interview protocol and screenshots/representative materials as appropriate. If your questionnaire or survey is online, you must provide the related URL.

Questionnaire

1. Rate the potential for this game to be used in a teaching environment
2. Rate your enjoyment or entertainment level during the gameplay
3. Rate how much you feel the game encouraged your own sustainable behaviour
4. Rate how much you feel the game encouraged your own sustainable socialisation in personal life/work life/ social life
5. Rate how much you feel the game encouraged your own drive toward sustainable activism

Interview protocol

1. What was your general reaction to playing the game/How was your experience/first reaction to the game?
2. How do you think playing this game would affect a young person's sustainable education?
3. How do you think playing this game would affect a young person's sustainable Behaviour?
4. How do you think the game could be improved to better achieve its goals?
5. Would you utilise a tool like this game in your area of work? If yes how would you?

SECTION 2 – Ethical Concerns

Describe and discuss all ethical issues relating to the study (including any relating to participant autonomy and personal data). As part of this, you should:

- 1. Describe any potential benefits and potential harms to participants, and how they are addressed.**

Similar to the endpoint users of the game, participants will hopefully benefit from further education in sustainability and a call to green action.

Of greater benefit will be seeing the potential of gamification in their work. Despite being a well-established practice, gamification is still in its relative infancy in the realm of behavioural change. Thus, the game could demonstrate the influence or role gamification could play in the future of the participant's industry.

It's the hope of the researcher similarly, that the need to educate young people in imaginative ways is made clear. Participants especially educators will see that there are many unconventional methods for influencing positive behaviours and gamification is merely the beginning.

No harm to the participants were apparent.

- 2. Describe any conflicts of interest and how they will be addressed.**

Some of the participants will be relatives of the head researcher. This has been taken into account and taking advantage of existing relationships is oftentimes key in order to making progress in research. The effect on the outcome is duly noted. Thus, I have urged participants to remain unbiased and confidently believe that as members of the industry of child behaviour and psychotherapy level heads will prevail and their judgement will remain undeterred by our personal connection.

SECTION 3 – CONFIDENTIALITY AND DATA PROTECTION

Note that it is up to the researcher (and their supervisor if relevant) to discharge their own professional and legal obligations with respect to the handling of personal data. Please consult the College Data Protection Officer (DPO) if in any doubt regarding your obligations.

- 3.1 Does this study involve collecting, using, accessing or sharing personal data^[1]**

YES

Type of Data	Justification: Why do you need the data?	Data Format	Technical and Organisational Controls	Identifiable coded, or anonymised
Email Address	Contact to organise interviews	Excel spreadsheet	Stored in an encrypted format on the local machine which is also encrypted	Identifiable
Consent Form	Evidence of consent from an ethical perspective	Hard copy form	Stored in a locked cabinet, in a locked office with access limited to PI.	Identifiable
Career/ Relevant Specialised research of participants	Inform research and project conclusions	Excel spreadsheet	Stored in an encrypted format on the local machine which is also encrypted	Pseudonymised (code given to each individual). PI has the key
Gender of Participants	Inform research and project conclusions	Excel spreadsheet	Stored in an encrypted format on a local machine which is also encrypted	Identifiable
Age of Participants	Inform research and project conclusions	Excel spreadsheet	Stored in encrypted format on local machine which is also encrypted	Identifiable

3.2 Does the study involve collecting, using, accessing or sharing sensitive data^[3]?

YES

Type of Data	Justification: Why you need the data?	Data Format	Technical and Organisational Controls	Identifiable coded, or anonymised
<i>Interview sheet answers</i>	<i>Method of research</i>	<i>Hard copy form</i>	<i>Stored in encrypted format on local machine which is also encrypted</i>	<i>Pseudonymised (code given to each individual). PI has the key</i>
<i>Questionnaire Sheet</i>	<i>Method of research</i>	<i>Hard Copy Form</i>	<i>Stored in encrypted format on local machine which is also encrypted</i>	<i>Anonymised</i>

3.3 Who determines how and why the personal and/or sensitive data is used?

(Data Controller^[4] or Joint Data Controllers)

The head researcher will act as the data processor and under the supervision of Timothy Savage, whilst trinity college will act as the data controller

3.4 Will the personal and/or sensitive personal data be shared with any third parties^[5]?

NO

If **YES**, provide details including information on the contractual arrangements in place.

If **NO**, please go to question 3.5

This list should include all Data Processing Agreements with external laboratories, Cloud-based Solutions Agreements etc., and any and Data Sharing Agreements with Collaborators.

Please contact researchDPO@tcd.ie if you need assistance with agreements and/or for any transfer outside EEA (including England, Wales, Scotland or Northern Ireland).

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3.5 How long will you retain the personal data?

Please see good [research practice guide](#) for guidance on retention of research data. Your school should be able to advice on best practice.

We will retain the questionnaire responses for 10 years for research integrity purposes, after which point it will be deleted.
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3. 6 Will the personal data be fully anonymised or deleted after it is no longer necessary?

Personal data other than emails will be fully anonymised and deleted after it is no longer necessary
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3.7 How will you inform participants of their rights under GDPR^[6]:

GDPR rights will be made clear at the briefing and in the survey document they will be requested to fill in.
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Please note that the DPO's contact details must be included on any information leaflet or privacy notice if you are using personal data for your research.

Email: dataprotection@tcd.ie

Post: Data Protection Officer, Secretary's Office, Trinity College Dublin, Dublin 2, Ireland

[1] Personal data is information which can identify a person. In particular: a name, address, email, telephone number, an identification number, location data, an online identifier, an IP address, a code key linking back to identifiable data etc. Please note that pseudonymised data is personal data under GDPR. Pseudonymised data means data which cannot be attributed to an individual without the use of additional information which is kept separately. (i.e. a key) . It is sometimes referred to as 'coded data'. Please note that in order to be considered personal data in our hands, Trinity must hold the key.

[2] If using Personal data. Records must be kept pursuant to Article 30, GDPR;
<https://gdpr-info.eu/art-30-gdpr/>

[3] Sensitive personal data means personal data, which poses a higher risk to the individual. It includes personal data revealing racial and ethnic origin, political opinions, religious or ideological convictions, trade union membership, criminal convictions and offences, genetic, biometric (photos, videos, audio etc.) data concerning physical or mental well-being , information relating to education, professional training employment and career history, questionnaires, Information relating to the family of the individual and the individual's lifestyle and social circumstances.

[4] *Employees and students of TCD are not data controllers. TCD is the data controller for the institution. However, if other institutes jointly decide how and why the data will be used, they should also be noted as controllers here.*

[5] Third parties could be collaborators (institutes/industry) or service providers (transcribers, cloud storage etc.)

[6] Under GDPR, these include:

- right of access;
- right to rectification;
- right to erasure;
- right to object to processing based on legitimate or public interest;
- right to data portability;
- right to object to profiling or making decisions about individuals by automated means?

TRINITY COLLEGE DUBLIN
INFORMED CONSENT FORM

LEAD RESEARCHERS: Ross Donnelly

BACKGROUND OF RESEARCH:

Sustainable behaviors are not sufficiently nurtured in young people despite their extreme importance for tackling the climate crisis that lies in their future. This research will investigate whether creating a game designed to instill sustainable activism succeeds in encouraging action whilst remaining informative and ethical. Positive behavioral modification is a key pillar of sustainable education and activism promotion, and gamification has proven to be a promising avenue for behavioral change. This study will investigate the capability of gamification to complete the project's goals with the help of it's participants.

PROCEDURES OF THIS STUDY:

Procedures of the study.

Participants will be introduced to the concept of the game before a brief demonstration by an experienced user for approximately 3 minutes. Following this participants will now be free to play the game by themselves and experience it first-hand. Unless the participant requests additional playing time, this testing should last 10 minutes. If any relevant features were not seen or utilised by the participant, the experienced user may give a second demonstration to make clear all the features of the game.

The participants will be asked to complete an anonymous questionnaire LIKO format (strongly disagree, disagree, indifferent, agree, strongly disagree), collected by the researcher to equate the overall value of the design. Following this, an interview will take place between the head researcher and the participant to gain a greater understanding of the successes and shortcomings of the procedure. The interview will consist of 5 questions and last 10 minutes. The interview will not be recorded but the researcher will take notes of participants answers.

Debriefing arrangements following the study.

Thank participants for their engagement and inform them of the importance of their opinion and the influence it will have on aspects of the project. You will be informed of the specific goals of the particular demonstration you undertook to give a broader understanding of the questionnaire and interview.

Participants will be informed that their results will be utilised in finalising the design and influencing the conclusion basis of the report. The report will be published and free to access on the project website. We will also email the final report to all participants upon its completion.

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Deleted: [The consent form is a standalone document, it should make sense without the information sheet but does not require all the details from the information sheet. It should be written in a way that is comprehensible to your intended participants. If something is not applicable to your study (e.g. no electronic recordings), then remove it from the form. Clauses in bold must be edited or removed, depending on whether they are relevant to your study. Any application containing these clauses unedited will be rejected without review]

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Deleted: explain the background, context and relevance of the research). [You may re-use the brief description of the research from the information sheet.]

Deleted: (explain what will happen in this particular study, including duration and risks to the participant) [This is what they are actually consenting to participate in.]

A copy of the intended questionnaire/survey/interview protocol and screenshots/representative materials as appropriate. If your questionnaire or survey is online, you must provide the related URL.

Questionnaire

1. Rate the potential for this game to be used in a teaching environment
2. Rate your enjoyment or entertainment level during the gameplay
3. Rate how much you feel the game encouraged your own sustainable behaviour
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3. How do you think playing this game would affect a young person's sustainable Behaviour?
4. How do you think the game could be improved to better achieve its goals?
5. Would you utilise a tool like this game in your area of work? If yes how would you?

PUBLICATION: The research will be presented and relevantly submitted as part of the module FINAL YEAR PROJECT CSU44099 and to the research supervisor Timothy Savage.

Deleted: (explain the intended publication and presentation venues for the research)

CONFLICTS OF INTEREST:

Some of the participants will be relatives of mine. This has been taken into account and taking advantage of existing relationships is oftentimes key in order to making progress in research. The effect on the outcome is duly noted. Thus, I have urged participants to remain unbiased and confidently believe that as members of the industry of child behaviour and psychotherapy level heads will prevail and their judgement will remain undeterred by our personal connection.

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Individual results may be aggregated anonymously and research reported on aggregate results.

DECLARATION:

- I am 18 years or older and am competent to provide consent.

- I have read, or had read to me, a document providing information about this research and this consent form. I have had the opportunity to ask questions and all my questions have been answered to my satisfaction and understand the description of the research that is being provided to me.
- I agree that my data is used for scientific purposes and I have no objection that my data is published in scientific publications in a way that does not reveal my identity.
- I understand that if I make illicit activities known, these will be reported to appropriate authorities.
- I understand that I may refuse to answer any question and that I may withdraw at any time without penalty.
- **[Typically, there is a point where it is no longer possible to withdraw, please edit the following to reflect the situation that applies to your study].**
- I understand that if the results of the research have been published, <or my data has been fully anonymised so that it can no longer be attributed to me>, then it will no longer be possible to withdraw
- I understand that I may stop electronic recordings at any time, and that I may at any time, even subsequent to my participation [request to] have such recordings destroyed (except in situations such as above). [Remove “request to” if you are always able to delete recordings. Remove this clause completely if there are no recordings].
- [In some situations it will not be possible to withdraw consent for recordings, e.g. if a public data set has been published, as allowed for in the initial consent, if so, then detail up to what point recordings can be destroyed, e.g.: until publication of data in three months]
- [I understand that the research team will remove such recordings where possible, but if the recordings have been published or made publicly available, with my original consent, then this will no longer be possible.]
- I understand that, subject to the constraints above, no recordings will be replayed in any public forum or made available to any audience other than the current researchers/research team. [do not include this if there are no recordings].
- I freely and voluntarily agree to be part of this research study, though without prejudice to my legal and ethical rights.
- **[If your study is fully anonymous, then a statement like the following would be appropriate. Note that many studies are in fact not anonymous and the right to withdraw outlined above is not compatible with full anonymity].** I understand that my participation is fully anonymous and that no personal details about me will be recorded.
- **[If the research involves viewing materials via a computer monitor]** I understand that if I or anyone in my family has a history of epilepsy then I am proceeding at my own risk.
- I understand that personal information about me, including the transfer of this personal information about me outside of the EU, will be protected in accordance with the General Data Protection Regulation.
- I have received a copy of this agreement.

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By signing this document I consent to participate in this study, and consent to the data processing necessary to enable my participation and to achieve the research goals of this study. **[If secondary data analysis is a possibility, for example to enable meta-analysis, then add a statement here, explain it in your information sheet, and also describe the arrangements for this in your proposal.]**

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PARTICIPANT'S NAME:

PARTICIPANT'S SIGNATURE:

Date:

Statement of investigator's responsibility: I have explained the nature and purpose of this research study, the procedures to be undertaken and any risks that may be involved. I have offered to answer any questions and fully answered such questions. I believe that the participant understands my explanation and has freely given informed consent.

RESEARCHERS CONTACT DETAILS:

RESEARCHER'S SIGNATURE: Ross Donnelly

Date: 08/02/2023

TRINITY COLLEGE DUBLIN

INFORMATION SHEET FOR PROSPECTIVE PARTICIPANTS

This sheet should inform participants of the following, as appropriate to the study. Of course, the information sheet for participants will vary with the study at hand. It should provide all information necessary for the participant to make an informed decision on whether to participate.

You MUST read the guidelines document available on the ethics webpage. The overwhelming majority of delays to approval are due to people not reading the guidelines. Taking the time to read the guidelines is the single fastest way to speed up approval of your study. Applications which are grossly deficient will be summarily rejected without full review.

[The background context of the research explaining its relevance]

Sustainable behaviors are not sufficiently nurtured in young people despite their extreme importance for tackling the climate crisis that lies in their future. This research will investigate whether creating a game designed to instill sustainable activism succeeds in encouraging action whilst remaining informative and ethical. Positive behavioral modification is a key pillar of sustainable education and activism promotion, and gamification has proven to be a promising avenue for behavioral change. This study will investigate the capability of gamification to complete the project's goals with the help of its participants.

[Who is doing the experiment]

This study is being carried out as part of the requirements to receive a bachelor's degree in Computer Science and Business from the School of Computer Science and Statistics at Trinity College Dublin led by Computer Science and Business senior sophister student Ross Gerard Donnelly.

[Who you are looking for]

We are seeking participants with experience or knowledge in behaviour development and education especially relating to young people and sustainability. No prior gaming experience or technological expertise is required.

[The procedures relevant to the participant within this particular study]

Participants will be introduced to the concept of the game before a brief demonstration by an experienced user for approximately 3 minutes. Following this participants will now be free to play the game by themselves and experience it first-hand. Unless the participant requests additional playing time, this testing should last 10 minutes. If any relevant features were not seen or utilised by the participant, the experienced user may give a second demonstration to make clear all the features of the game.

The participants will be asked to complete an anonymous questionnaire LIKO format (strongly disagree, disagree, indifferent, agree, strongly agree), collected by the researcher to equate the overall value of the design. Following this, an interview will take place between the head researcher and the participant to gain a greater understanding of the successes and shortcomings of the procedure. The interview will consist of 5 questions and last 10 minutes. The interview will not be recorded but the researcher will take notes of participants answers.

Debriefing arrangements following the study.

Thank participants for their engagement and inform them of the importance of their opinion and the influence it will have on aspects of the project. You will be informed of the specific goals of the particular demonstration you undertook to give a broader understanding of the questionnaire and interview.

Participants will be informed that their results will be utilised in finalising the design and influencing the conclusion basis of the report. The report will be published and free to access on the project website. We will also email the final report to all participants upon its completion.

[What data will be gathered, where it will be stored, and who will have access to this data]

Type of Data	Justification: Why do you need the data?	Data Format	Technical and Organisational Controls	Identifiable coded, or anonymised
Email Address	Contact to organise interviews	Excel spreadsheet	Stored in an encrypted format on the local machine which is also encrypted	Identifiable
Consent Form	Evidence of consent from an ethical perspective	Hard copy form	Stored in a locked cabinet, in a locked office with access limited to PI.	Identifiable
Career/ Relevant Specialised research of participants	Inform research and project conclusions	Excel spreadsheet	Stored in an encrypted format on the local machine which is also encrypted	Identifiable
Gender of Participants	Inform research and project conclusions	Excel spreadsheet	Stored in an encrypted format on a local machine which is also encrypted	Identifiable
Age of Participants	Inform research and project conclusions	Excel spreadsheet	Stored in encrypted format on local machine which is also encrypted	Identifiable

<i>Interview sheet answers</i>	<i>Method of research</i>	<i>Hard copy form</i>	<i>Stored in encrypted format on local machine which is also encrypted</i>	<i>Pseudonymised (code given to each individual). PI has the key</i>
<i>Questionnaire Sheet</i>	<i>Method of research</i>	<i>Hard Copy Form</i>	<i>Stored in encrypted format on local machine which is also encrypted</i>	<i>Anonymised</i>

[How long the data will be retained]

We will retain the questionnaire responses for 10 years for research integrity purposes, after which point it will be deleted.

[Legal basis for processing]

We will be storing and processing this data in order to conduct research (this is the legal basis).

[The expected duration of the participant's involvement]

A briefing of 3-5 minutes will take place to explain the study and the game to the participants. This will be followed by a minimum of ten minutes of gameplay with extra time allowed for participants who wish to continue. The participants' survey will then take 5 minutes followed by an interview of 5 questions lasting a total of 25 minutes.

[Anticipated risks/benefits to the participant]

Similar to the endpoint users of the game, participants will hopefully benefit from further education in sustainability and a call to green action.

Of greater benefit will be seeing the potential of gamification in their work. Despite being a well-established practice, gamification is still in its relative infancy in the realm of behavioural change. Thus, the game could demonstrate the influence or role gamification could play in the future of the participant's industry.

It's the hope of the researcher similarly, that the need to educate young people in imaginative ways is made clear. Participants especially educators will see that there are many unconventional methods for influencing positive behaviours and gamification is merely the beginning.

No harm to the participants were apparent.

[The voluntary nature of participation and withdrawal – non-anonymous data]

Your participation is entirely voluntary, and you can withdraw at any time without penalty. Contact with the researcher is requested if withdrawal is prior to the participation. An indication to withdraw will be followed by all identifiable data regarding the participant

being deleted.

[The voluntary nature of participation and withdrawal - fully anonymous data]

Your participation is entirely voluntary, and you can withdraw at any time up until the point data is anonymized. As there is no way for us (or anyone else) to identify an individual participant once their data is fully anonymised and relevantly protected. Thus it will no longer be possible to withdraw once you have two weeks after the experiment takes place.

[Optional nature of questions]

Despite some questions being reflective of your personal life to contextualize the results, each question is optional. Feel free to omit a response to any question; however the researcher would be grateful if all questions are responded to.

[The provisions for debriefing after participation]

At the end of the experiment, the head researcher will thank participants for their engagement and inform them of the importance of their opinion and the influence it will have on aspects of the project. You will be informed of the specific goals of the particular demonstration you undertook to give a broader understanding of the questionnaire and interview.

Participants will be informed that their results will be utilised in finalising the design and influencing the conclusion basis of the report. The report will be published and free to access on the project website. We will also email the final report to all participants upon its completion.

[Preservation of participant and third-party anonymity in analysis, publication and presentation of resulting data and findings]

Edit this text to match what you actually do in your experiment. If you don't make recordings then don't refer to them in your information sheet or consent form. If secondary data analysis is to be supported, then you should explicitly explain what data might be subject to secondary analysis (and what secondary analysis means).

"The data will be analysed in order to <purposes>. We plan to publish the results of our research in academic journals and conference proceedings. We will do this in a way which does not identify you, or any other individual participant." "The research results will be published in a M.Sc. dissertation at Trinity College Dublin." "No audio or video recordings will be made available to anyone other than the <researcher/research team>, nor will any such recordings be replayed in any public forum or presentation of the research."

Please see the guidelines regarding situations in which participants do not wish to be anonymous, and regarding the use of images or video in which individuals can be identified.

[Cautions about inadvertent discovery of illicit activities]

While it is unlikely that illicit activities would be disclosed, if you do so, we would be obliged to report them to the appropriate authorities.

[Provision for verifying direct quotations and their contextual appropriateness]

The interview will not be recorded but the researcher will take notes of participants' answers. Some direct quotations may be used from the interview and experiment,

however as the data is fully anonymised, the quotations will merely be contextualized by the data retained i.e age, gender, realm of research.

[Declarations of conflicts of interest]

Some of the participants will be relatives of the head researcher. This has been taken into account and taking advantage of existing relationships is oftentimes key in order to making progress in research. The effect on the outcome is duly noted. Thus, I have urged participants to remain unbiased and confidently believe that as members of the industry of child behaviour and psychotherapy level heads will prevail and their judgement will remain undeterred by our personal connection.

[Contact Details of researcher in case of queries]

If you have any queries, feel free to contact Ross Gerard Donnelly at rdonnel5@tcd.ie, and we will be happy to answer questions about the experiment.”

[Data protection details]

Data Controllers: Trinity College Dublin

Data Protection Officer: Data Protection Officer, Secretary’s Office, Trinity College Dublin, Dublin 2 - dataprotection@tcd.ie

School of Computer Science & Statistics

Research Ethics Application

Part A

Project Title: Climateers: A game to educate and encourage young people's sustainable behaviour and activism.....

Name of Lead Researcher (student in case of project work): Ross Donnelly.....

Name of Supervisor: Timothy Savage.....

TCDE-mail: rdonnel15@tcd.ie..... Contact Tel No.: +353838577355.....

Course Name and Code (if applicable): FINAL YEAR PROJECT CSU44099.....

Estimated start date of survey/research: February 2023

I confirm that I will (where relevant):

- Familiarize myself with the Data Protection Act and the College Good Research Practice guidelines http://www.tcd.ie/info_compliance/dp/legislation.php;
- Tell participants that any recordings, e.g. audio/video/photographs, will not be identifiable unless prior written permission has been given. I will obtain permission for specific reuse (in papers, talks, etc.)
- Provide participants with an information sheet (or web-page for web-based experiments) that describes the main procedures (a copy of the information sheet must be included with this application)
- Obtain informed consent for participation (a copy of the informed consent form must be included with this application)
- Should the research be observational, ask participants for their consent to be observed
- Tell participants that their participation is voluntary
- Tell participants that they may withdraw at any time and for any reason without penalty
- Give participants the option of omitting questions they do not wish to answer if a questionnaire is used
- Tell participants that their data will be treated with full confidentiality and that, if published, it will not be identified as theirs
- On request, debrief participants at the end of their participation (i.e. give them a brief explanation of the study)
- Verify that participants are 18 years or older and competent to supply consent.
- If the study involves participants viewing video displays then I will verify that they understand that if they or anyone in their family has a history of epilepsy then the participant is proceeding at their own risk
- Declare any potential conflict of interest to participants.
- Inform participants that in the extremely unlikely event that illicit activity is reported to me during the study I will be obliged to report it to appropriate authorities.
- Act in accordance with the information provided (i.e. if I tell participants I will not do something, then I will not do it).

Signed:Ross Donnelly.....
Lead Researcher/student in case of project work

Date:08/02/22.....

Part B

<i>Please answer the following questions.</i>		<i>Yes/No</i>
Has this research application or any application of a similar nature connected to this research project been refused ethical approval by another review committee of the College (or at the institutions of any collaborators)?		NO
Will your project involve photographing participants or electronic audio or video recordings?		NO
Will your project deliberately involve misleading participants in any way?		NO
Does this study contain commercially sensitive material?		NO
Is there a risk of participants experiencing either physical or psychological distress or discomfort? If yes, give details on a separate sheet and state what you will tell them to do if they should experience any such problems (e.g., who they can contact for help).		NO
Does your study involve any of the following?	Children (under 18 years of age)	NO
	People with intellectual or communication difficulties	NO
	Patients	NO

School of Computer Science and Statistics Research Ethical Application Form

Details of the Research Project Proposal must be submitted as a separate document to include the following information:

1. Title of project
2. Purpose of project including academic rationale
3. Brief description of methods and measurements to be used
4. Participants - recruitment methods, number, age, gender, exclusion/inclusion criteria, including statistical justification for numbers of participants
5. Debriefing arrangements
6. A clear concise statement of the ethical considerations raised by the project and how you intend to deal with them
7. Cite any relevant legislation relevant to the project with the method of compliance e.g. Data Protection Act etc.

Part C

I confirm that the materials I have submitted provided a complete and accurate account of the research I propose to conduct in this context, including my assessment of the ethical ramifications.

Signed: ...Ross Donnelly..... Date: . 08/02/22.....
Lead Researcher/student in case of project work

There is an obligation on the lead researcher to bring to the attention of the SCSS Research Ethics Committee any issues with ethical implications not clearly covered above.

Part D

If external or other TCD Ethics Committee approval has been received, please complete below.

External/TCD ethical approval has been received and no further ethical approval is required from the School's Research Ethical Committee. I have attached a copy of the external ethical approval for the School's Research Unit.

Signed: .Ross Donnelly..... Date: . 08/02/22.....
Lead Researcher/student in case of project work

Part E

If the research is proposed by an undergraduate or postgraduate student, please have the below section completed.

I confirm, as an academic supervisor of this proposed research that the documents at hand are complete (i.e. each item on the submission checklist is accounted for) and are in a form that is suitable for review by the SCSS Research Ethics Committ

Signed: Timothy Savage..... Date: ... 08/02/22.....
Supervisor

Completed application forms together with supporting documentation should be submitted electronically to the online ethics system - https://webhost.tchpc.tcd.ie/research_ethics/ When your application has been reviewed and approved by the Ethics committee, hardcopies with original signatures should be submitted to the School of Computer Science & Statistics, Room 104, Lloyd Building, Trinity College, Dublin 2.

CHECKLIST

Please ensure that you have submitted the following documents with your application:

1.	• SCSS Ethical Application Form	
2.	• Participant's Information Sheet must include the following: a) Declarations from Part A of the application form; b) Details provided to participants about how they were selected to participate; c) Declaration of all conflicts of interest.	x
3.	• Participant's Consent Form must include the following: a) Declarations from Part A of the application form; b) Researchers contact details provided for counter-signature (your participant will keep one copy of the signed consent form and return a copy to you).	x
4.	• Research Project Proposal must include the following: a) You must inform the Ethics Committee who your intended participants are i.e. are they your work colleagues, class mates etc. b) How will you recruit the participants i.e. how do you intend asking people to take part in your research? For example, will you stand on Pearse Street asking passers-by? c) If your participants are under the age of 18, you must seek both parental/guardian AND child consent.	x
5.	• Intended questionnaire /survey/interview protocol/screen shots/representative materials (as appropriate)	x
6.	• URL to intended on-line survey (as appropriate)	n/a

Notes on Conflict of Interest

1. If your intended participants are work colleagues, you must declare a potential conflict of interest: you are taking advantage of your existing relationships in order to make progress in your research. It is best to acknowledge this in your invitation to participants.
2. If your research is also intended to direct commercial or other exploitation, this must be declared. For example, *"Please be advised that this research is being conducted by an employee of the company that supplies the product or service which form an object of study within the research."*

Notes for questionnaires and interviews

1. If your questionnaire is **paper based**, you must have the following **opt-out** clause on the top of each page of the questionnaire: *"Each question is optional. Feel free to omit a response to any question; however the researcher would be grateful if all questions are responded to."*
2. If your questionnaire is **on-line**, the first page of your questionnaire must repeat the content of the information sheet. This must be followed by the consent form. If the participant does not agree to the consent, they must automatically be exited from the questionnaire.
3. Each question must be **optional**.
4. The participant must have the option to '**not submit, exit without submitting**' at the final submission point on your questionnaire.
5. If you have open-ended questions on your questionnaire you must warn the participant against naming **third parties**: *"Please do not name third parties in any open text field of the questionnaire. Any such replies will be anonymised."*
6. You must inform your participants regarding **illicit activity**: *"In the extremely unlikely event that illicit activity is reported I will be obliged to report it to appropriate authorities."*