DCU
Ollscoil Chathair
Bhaile Átha Cliath
Dublin City University

School of Computing
RESEARCH ETHICS COMMITTEE

APPLICATION FORM FOR ETHICAL REVIEW OF A RESEARCH PROJECT INVOLVING HUMAN PARTICIPANTS WHICH IS IN THE CATEGORY OF NOTIFICATION ONLY

There are 3 generally accepted levels of ethical review for projects carried out in a University or similar setting. These are notification only, expediated and full committee.

This notification only level of review is to approve relatively low-risk research involving human participants, primarily using social science methodologies in which any personal information collected is not of a sensitive nature. The School of Computing Research Ethics Committee has been delegated responsibility by the University to approve ethics submissions from undergraduate and taught Masters projects only, which are in the category of notification only.

Examples of projects in this category include:

- Anonymous surveys in which the topic itself is not likely to elicit significant difficulties for the participants, such as: anonymous internet surveys (e.g. Survey Monkey), street questioning.
- Observation (without audio or visual recording) of public settings where privacy would not normally be expected, such as observing people on streets or at sports events.
- Research carrying no risks beyond those of everyday life (as experienced by the intended participant population), such as asking people's opinions about products or services; asking students about educational experiences; monitoring the impact of daily activities.
- Interviews with public figures, professionals or others in their professional capacity regarding their professional activities.
- Analysis of data (e.g. health records) which have had all identifying information removed by the data holder and been provided to the researcher in accordance with data protection legislation.
- Collection of biological samples which are anonymised and do not require invasive techniques (e.g. hair, nails).

If your project is using data from a public repository like Kaggle or is not generating or using any form of personal data then you do not need research ethics approval, you do not need to complete and to submit this form and your project supervisor should indicate this on the project dashboard.

If your project involves collecting or processing personal data which is of a personal nature, you must first complete the DCU online Data Protection training course and review the "Data Protection – Key Points for DCU Researchers" guidance from the Data Protection Unit to assist you in meeting your legal obligations under GDPR and associated Irish law.

Once you have completed this form (if you need to) you should save it as a PDF file, not WORD, and upload it to the your project dashboard before you start gathering data. It will then be read and assessed by two members of the committee and once two members of the committee approve your submission you will be automatically notified by email and your project can start data gathering.

There are strict deadlines for submitting this form for each class group, undergraduate and taught Masters by which your submission must be made and you will be informed of these deadlines by your course board chair or project co-ordinator. If you do not submit by these deadlines then the research ethics committee is not obliged to approve your submission and when that happens and your project is assessed and graded at the end of the year, you will be awarded 0 for that component of your project.

SECTION 1 – GENERAL DETAILS

1.1 Project Title

LifeLens: Data Visualisation for Chronic Illness Prevention

1.2 Applicant Details

Name	Student or Supervisor	E-mail
Michael Regan	Student	michael.regan25@mail.dcu.ie
Dr. Michael Scriney	Supervisor	michael.scriney@dcu.ie

Other Investigators: *Including any external to DCU*

Name	School/Unit/External Institution	E-mail

1.3 Key Project Dates

Proposed start date for data collection	Proposed end date for data collection	Proposed project completion date
19/02/24	23/02/24	23/02/24

1.4 Please indicate which academic award

Undergraduate ☑	Taught Masters ☐

1.5 Please confirm the location(s) where the research will be carried out

If research will be carried out abroad, you will need to address the ethical challenges raised by this in Section 3 of your application - consult the Conducting Research Abroad document in the Ethics Resources and Guidelines section of the DCU Research Ethics webpage).

32 Ashgrove Drive, Naas, co. Kildare, W91HH6R

1.6 Please state what additional permissions may be required to access participants.

Specify from whom the permission is required (e.g. a school Board of Management), and when their written approval will be obtained

SECTION 2 – PROJECT DESIGN AND METHODOLOGY

Research Overview - Please respect the indicated word counts in the following sections and explain all acronyms in full text the first time they appear.

2.1 Provide a brief description of the research (max 250 words):
Please use lay language, include the scientific/theoretical background of study and a justification as to why this research project should proceed in that context

The research entails user testing for the sLife Lens system. Life Lens is a web application that takes users' lifelog data and visualises it for them so that they can extract meaningful insights about their behaviour. It also takes the behavioural data and performs a chronic illness risk assessment. User testing will provide invaluable insight into the current app design and will help polish the final product. The user testing will include an interview where participants will be guided through the user experience on Life Lens using life lens data that is not there own. Participants will then be asked to fill out a 14-question online survey. No personal data will be collected

2.2 Please state the aims and objectives of the project (max 200 words)

The study aims to assist the user experience of the Life Lens app.

2.3 Please confirm your methods of data collection:
Tick all relevant check boxes and provide details for each one, including any devices used to collect data, and whether the data will be anonymous, potentially identifiable or identifiable <u>at point of collection</u>

Method	Describe briefly
☑ Interviews or focus groups	The Interview will involve guiding the participant through the user experience on Life Lens using lifelog data that is not their own
☑ Surveys/questionnaires	Participants will then be asked to fill out a 14-question online survey
☐ Audio/video recordings	
☐ Public observations	
☐ Persons in public office	
☐ Using existing data (incl. secondary data)	
☐ Using human derived material (biological samples)	

☐ Standard tests (educational/personality etc.)	
☐ Standard educational practices	
☐ Other (please specify)	

2.4 Please confirm who the participants on this study will be, including group size and composition:
Include associated demographic characteristics, and state how your proposed sample size was determined (e.g. power analysis)

Participants of the study will be friends and family of the developer.

2.5 Please outline your recruitment process, including where you are sourcing participants from and your criteria for inclusion/exclusion:
Where gatekeepers are involved, outline the procedures relating to their involvement

Participants of the study will be recruited in person and through virtual communication platforms such as SMS and WhatsApp

2.6 Addressing participant vulnerability – if your participants fall into any of the following categories, please check the relevant tick box/boxes and state below what special arrangements will be made to protect them:
If your participants are not in any of these categories, tick N/A

☑ N/A
☐ Children under 18 years of age
☐ Persons in unequal relationships with the researcher *(e.g. lecturer-student, therapist-client, employer-employee)*
☐ People with a recognised or diagnosed intellectual, physical or mental impairment
☐ People confined to institutions *(e.g. prisoners, residents in 24 hr nursing facilities)*
☐ People who have undergone traumatic or adverse emotional events
☐ People with diminished cognitive ability
☐ Marginalised sections of society
☐ Other (please specify)
Special arrangements:

2.7 Involvement of children under 18 years of age – if your participants are in this category, please confirm compliance with the following:
If your participants are not in this category, tick N/A

☑ N/A
☐ We confirm that we have read and agree to act in accordance with the DCU Child Protection policy and procedures (*as per the DCU Child Protection Unit webpage*)
☐ We confirm that we have put in place safeguards for the children participating in the research
☐ We confirm that we have supports in place for children who may disclose current or historical abuse (whether or not this is the focus of the research)
☐ We confirm that all requirements will be met prior to commencing the research *(e.g. TUSLA Children First Training completed, Garda Vetting in place)*

2.8 Please confirm how the results of the research will be disseminated:
Include a statement on whether the participants will be provided with any information as to the findings or outcomes of the project

Participants will not be informed of the findings of the study

SECTION 3 – ETHICAL ISSUES AND RISK MANAGEMENT

3.1 Please identify all issues including ethical issues which may arise in the course of this research. What are the potential risks to participants, and how will those risks be addressed or minimised?

Potential risks can be physical, psychological, social, legal, etc. Please include details of any additional support being provided for participants during/after the study

There are no risks involved in this study

3.2 Please identify the potential benefits (direct and/or indirect) to those participating in this research:

Potential benefits should outweigh the potential risks to participants

This study will benefit the user experience of the Life Lens app. This can further assist the app in its goal of helping its users prevent chronic illness.

3.3 Please describe what measures/protocols you have put in place in the event that there are any unexpected outcomes or adverse effects to participants arising from involvement in the research:

Participants can leave the interview at any time and are no obliged to fill out the 14 question survey.

3.4 Do you intend to provide payment or incentives to participants?

Yes ☐	No ☑

If Yes, please consult the REC Guidelines on the Use of Compensation and Incentives (in the Ethics Resources and Guidelines section of the DCU Research Ethics webpage) before providing additional details below

3.5 Does this research raise any potential risks for the researchers themselves?

Please consider the location/environment where the research is being conducted, exposure to distressing data content etc.

Yes ☐	No ☑

If Yes, please describe further and explain what risk management procedures will be put in place to minimise these risks to researchers:

3.6 Does this research raise any potential conflict of interest?
Please consider any potential real or perceived conflicts of interest that might influence the integrity of the research, or give rise to bias in conducting and reporting the research, or affecting publication (consult the DCU Conflict of Interest Policy for assistance)

Yes ☐	No ☑

If Yes, please identify and explain the steps being taken to address that conflict:

3.7 Please describe how the conduct of the research will be monitored:
Regular oversight by the PI is required to ensure the project conforms to the procedures set out in this application (especially where several people are involved in carrying out the research procedures)

Research will be monitored by the student Micahel Regan and the project supervisor Dr Michael Scriney

SECTION 4 – CONFIDENTIALITY AND DATA MANAGEMENT

4.1 Considering your previous response in section 2.3 of the form on data collection, please confirm whether you are collecting or processing personal data in this research project:
Personal data is any information about a living person, where that person is either identified, or could be identified from the data itself, or when it is combined with other data. This includes paper based, electronic and biological samples data. If your data is fully and completely anonymous, it is not personal data.

Yes ☐	No ☑

If Yes, please confirm your compliance with the following by ticking the checkboxes:

☐ We confirm that we have completed the DCU Data Protection training module on Loop.
☐ We confirm that we have read the "Data Protection – Key Points for DCU Researchers" guidance on the DCU Data Protection Unit (DPU) website and agree to protect and manage our data in accordance with same.
☐ We have assessed the degree of risk inherent in the personal data being used in the research project, and confirm that all DPU GDPR requirements have been met prior to submitting this application *(e.g. completion of Data Protection questionnaire, confirmation that any survey tool being used is GDPR compliant, that required Data Processing or Sharing Agreements will be in place, etc.)*

4.2 Data access – please confirm whether access to participant data is confined to the investigators named on this application:

Yes ☑	No ☐

If No, please name who the other individuals are and why they need access. Any proposed transfer of data (including outside of the EU) should be detailed here.

4.3 Data storage – please confirm compliance with the following:

☑ Data collected on mobile devices will be protected with a strong password/passphrase at a minimum, and/or encrypted if the device supports it
☑ Data will be removed from mobile devices as soon as is practicable and stored in a secured location in DCU (on server or institutional Google Drive)
☑ Paper based data will be held securely in locked cabinets in DCU, with access restricted to the named researchers
Specific arrangements in relation to biological samples should be stated here:
Any exemptions to the above compliance statements should be justified here:

4.4 Please confirm who will be responsible for the secure storage of data generated by the research:

Name the relevant DCU investigator/s

Micahel Regan

4.5 Please confirm how long the data will be held for:

For personal data, consult section 15: Retention of Personal Data in the "Data Protection – Key Points for DCU Researchers" guidance on the DCU Data Protection Unit (DPU) website

Personal Data will not be collected

4.6 Please confirm what will happen to the data collected at the end of the study:

Please tick the relevant checkbox and complete the associated follow-up section for that category

Archived ☑	Destroyed ☐	Other ☐

4.6.1 Archived data

Please provide the following details:

Name the DCU staff member responsible for archival and future use of data	*Michael Regan*
Confirm whether the data will be made available to other researchers, and if so, how?	*Data will be made available through the life-lens Dcu GitLab repo*
Confirm how the data will be prepared for archive (e.g. will datasets be anonymised)	*No personal data will be in the DataSet*
Confirm where the data will be archived and who will be allowed to access it	*The data will be stored on DCU's GitLab server and will be accessible to any member of DCU with access to DCU's GitLab server*

4.6.2 Destroyed data

Please provide the following details – Note: for student projects, the supervisor must take responsibility for data destruction if there is no guarantee the student will have access to the data at the time of destruction

Please justify why the data will be destroyed	
Name the DCU researcher responsible for destruction of data	
Confirm when the data will be destroyed (specify date)	
Confirm compliance with the following destruction methods (tick relevant boxes)	☐ Electronic data will be overwritten/securely deleted ☐ Paper based data will be confidentially shredded ☐ Medical samples will be disposed in accordance with the relevant DCU approved SOP

4.6.2 Other - Please explain what will happen to the data if not being archived or destroyed:

SECTION 5 – PARTICIPANT INFORMATION AND INFORMED CONSENT PROCEDURES

In addition to completing this form you are required to attach, within the single PDF that you submit, a copy of (1) the Participation Information Sheet which you share with your participants and (2) a copy of the Informed Consent Form which your participants sign.

5.1 Please confirm that the following items have been addressed in your Participant Information Sheet which should be shared with all participants whether it involves online or in-person data gathering:

The items below should be used as headings in yourinformation sheet. Note the language used under each item must reflect the participant age group and corresponding comprehension level– if your participants have different comprehension levels (e.g. both adult and child participants) then separate sheets must be prepared for each set. Templates are available via the REC Forms - Applications, Templates and Amendments section of the Research Ethics website.

Checklist – tick the relevant check box for each item	Yes	No
Introductory Statement (Researcher names and titles, school, title of the research study)	☑	☐
What is this research about?	☑	☐
Why is this research being conducted?	☑	☐
Why have you been invited to take part?	☑	☐
What will happen if you decide to take part in this research study?	☑	☐
How will your data be used?	☑	☐
How will your privacy be protected (including any legal limits to confidentiality)?	☑	☐
What are the benefits of taking part in this research study?	☑	☐
What are the risks of taking part in this research study?	☑	☐
Can you change your mind at any stage and withdraw from this study?	☑	☐
How will you find out what happens with this project?	☑	☐
Contact details for further information	☑	☐

If you marked any item as No, please explain and justify why:

5.2 Informed Consent Procedures – please confirm whether written consent is to be obtained:

Please tick the relevant checkbox

Yes ☑	No ☐

If Yes, describe the procedures by which written consent will be obtained. If you are involving child participants, you will also need to obtain their written assent. Templates are available via the REC Forms - Applications, Templates and Amendments section of the Research Ethics website.

Informed consent will be obtained through a Google form before the user testing survey.

If No, describe the procedures regarding how consent/assent will be obtained:

If you are gathering data from an online process such as Google Form or SurveyMonkey then you should use a page such as the one below, to capture participants' informed consent and your data gathering should not proceed until participants have completed this form with the appropriate answers.

Participant – please complete the following (by clicking Yes/No for each question)

I have read the Plain Language Statement (or had it read to me) *

- (●) Yes
- ( ) No

I understand the information provided *

- ( ) Yes
- ( ) No

I have had an opportunity to ask questions and discuss this study *

- ( ) Yes
- ( ) No

I understand the information provided in relation to data protection *

- ( ) Yes
- ( ) No

I have received satisfactory answers to all my questions *

- ( ) Yes
- ( ) No

I understand I may withdraw from the Research Study at any point *

- ( ) Yes
- ( ) No

I have read and understand the arrangements to be made to protect confidentiality of data, including that confidentiality of information provided is subject to legal limitations *

- ( ) Yes
- ( ) No

I have read and understand confirmations relating to any other relevant information as indicated in the PLS *

- ( ) Yes
- ( ) No

I consent to participate in this research study *

- ( ) Yes
- ( ) No

SECTION 6 – SUBMISSION CHECKLIST AND RESEARCHER DECLARATION

6.1 Please confirm all required supplementary documentation to be included in this application within Section 7:

Checklist – tick the relevant check box for each item	Yes	N/A
Participant Information Sheet/s	☑	
Informed Consent Form/s	☑	☐
Informed Assent Form/s	☐	☐
Recruitment Advertisement	☐	☐
Questionnaire/Survey	☑	☐
Interview/Focus Group Questions	☐	☐
Debriefing Material	☐	☐
Bibliography	☐	☐
Approval from another Research Ethics Committee	☐	☐
Evidence of other external approvals (e.g. Board of Management letter)	☐	☐
Evidence of internal approvals (e.g. BSC approval review letter)	☐	☐
Other – provide details here:	☐	☐

6.2 Signed Declaration

By submitting this form, the applicant (and supervisor) agree to the following:

The information contained herein is, to the best of my knowledge and belief, accurate. I have read the University's current research ethics guidelines, and accept responsibility for the conduct of the procedures set out in the attached application in accordance with the form guidelines, the REC guidance and resources, the University's Conflict of Interest Policy, its Code of Good Research Practice and any other condition laid down by the Dublin City University Research Ethics Committee. I have attempted to identify all risks related to the research that may arise in conducting this research and acknowledge my obligations and the rights of the participants.

I also acknowledge my requirement to be informed as to other duties and legal obligations applying to my research, and to comply with these duties and obligations – this includes being informed about DCU Data Protection guidelines for researchers, DCU Child Protection policy and procedures (where relevant) and DCU Insurance requirements.

I and my co-investigators and/or supporting staff have the appropriate qualifications, experience and facilities to conduct the research set out in the attached application and to deal with any emergencies and contingencies related to the research that may arise. Research will not commence until required consents and approvals are in place.

Electronic Signature(s):

Supervisor: Michael Scriney

Print Name here: Michael Scriney

Date: 19/02/2024

Student(s) signature(s): _____

Print Name(s) here: _____

Date: _____

SECTION 7 – SUPPLEMENTARY DOCUMENTATION

Please attach all required documentation as confirmed by you in the previous section. The application should then be saved as one file in PDF format before submission via the project dashboard.

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Life Lens User Testing Participant Information Sheet

Introductory Statement
Project Title: LifeLens: Data Visualisation for Chronic Illness Prevention
Researcher(s):
Michael Regan, Student, DCU school of computing
Dr Michael Scriney, Project supervisor, DCU school of computing

What is this research about?
This research is user testing for a web app named Life-Lens that takes users' lifelog data and visualises it to extract meaningful behavioural data. The app also predicts users' risk of 10 different chronic illnesses.

Why is this research being conducted?
This research is being conducted to gather information about how users interact with the Life Lens app.

Why have you been invited to take part?
You have been chosen to take part in this research as Life Lens needs test users.

What will happen if you decide to take part in this research study?
If you choose to participate in this study a researcher will guide you through the user experience on the Life Lens app. The user data being used on the app during the test will not be your own but you will be asked to pretend it is. You will then be asked to complete a 14-question digital survey.

How will your data be used?
- *The Data will be controlled by Michael Regan*
- *Data protection concerns arising from this research will be handled by DCU's Data Protection Officer – Mr. Martin Ward (data.protection@dcu.ie Ph.: 7005118 / 7008257).*
- *The Data will be processed to assist in the development of the Life Lens app.*
- *No personal data will be collected.*
- *The data will not be shared with any third parties.*
- *The data will not be transferred internationally.*
- *The data will then be archived on DCU's GitLab server and be accessible to members of DCU with access to their GitLab server.*
- *The data will not be used in further studies.*

How will your privacy be protected (including any legal limits to confidentiality)?
Please note that confidentiality of information can only be protected within the limitations of the law - i.e., it is possible for data to be subject to subpoena, freedom of information claim or mandated reporting by some professions.

What are the benefits of taking part in this research study?
Participating in the study will indirectly benefit users of the Life Lens app to prevent chronic illness

What are the risks of taking part in this study?
There are no risks in taking part in this study.

Can you change your mind at any stage and withdraw from this study?
You can withdraw from the interview at any time and are not obliged to fill out the 14-question survey. Furthermore, you have till 23/02/2024 to have your data excluded from the dataset that will be archived on DCU's GitLab Server.

How will you find out what happens with this project?
You will not be informed about what happens with the project.

Contact details for further information:
If participants have concerns about this study and wish to contact an independent person, please contact: The Secretary, Dublin City University Research Ethics Committee, c/o Research and Innovation Support, Dublin City University, Dublin 9. Tel 01-7008000, e-mail rec@dcu.ie

Informed Concent for Life Lens User Testing

Please complete the following (by clicking yes/no for each question)

1. I have read the Participant Information Sheet (or have had it read to me)

   Mark only one oval.

   - ◯ Yes
   - ◯ No

2. I understand the information provided

   Mark only one oval.

   - ◯ Yes
   - ◯ No

3. I have had an opportunity to ask and discuss this study

   Mark only one oval.

   - ◯ Yes
   - ◯ No

4. I understand the information provided in realation to data protection

   Mark only one oval.

   - ◯ Yes
   - ◯ No

5. I have received satisfactory answers to all my questions

Mark only one oval.

- Yes
- No

6. I understand I may withdraw from the Research Study at any point

Mark only one oval.

- Yes
- No

7. I understand no personal data is being collected in this study

Mark only one oval.

- Yes
- No

8. I have read and understand confirmations relating to any other relevant information as indicated in the PLS

Mark only one oval.

- Yes
- No

9. I consent to participate in this study

Mark only one oval.

- Yes
- No

Life Lens User Testing

Please complete the following

1. To what extent do you agree with the following statement: “Life-len’s visualisations have given you further insight into your behaviour”?

   Mark only one oval.

   - ◯ Strongly Agree
   - ◯ Agree
   - ◯ Neutral
   - ◯ Disagree
   - ◯ Strongly Disagree

2. To what extent do you agree with the following statement: “Life-len’s visualisations have inspired you to change your daily activities”?

   Mark only one oval.

   - ◯ Strongly Agree
   - ◯ Agree
   - ◯ Neutral
   - ◯ Disagree
   - ◯ Strongly Disagree

3. To what extent do you agree with the following statement: “Life-len’s visualisations have inspired you to change your transport methods”?

   Mark only one oval.

   - ◯ Strongly Agree
   - ◯ Agree
   - ◯ Neutral
   - ◯ Disagree
   - ◯ Strongly Disagree

4. To what extent do you agree with the following statement: “Life-len’s visualisations have inspired you to be more active”?

   Mark only one oval.

   - ◯ Strongly Agree
   - ◯ Agree
   - ◯ Neutral
   - ◯ Disagree
   - ◯ Strongly Disagree

5. To what extent do you agree with the following statement: “Life-len’s visualisations have inspired you to spend more time with loved ones”?

   Mark only one oval.

   - ◯ Strongly Agree
   - ◯ Agree
   - ◯ Neutral
   - ◯ Disagree
   - ◯ Strongly Disagree

6. What visualisation can you extract the most meaningful insight from?

Mark only one oval.

- ◯ Activities
- ◯ Transport
- ◯ Emotion Tension
- ◯ Emotion Positive
- ◯ Time spent with people

7. What period can you extract the most meaningful insight from?

Mark only one oval.

- ◯ Hours
- ◯ Days
- ◯ Months

8. Is there any meaningful lifelog data missing from the visualisations? If yes what is that data?

_____

_____

_____

_____

_____

9. If Life-Len’s chronic illness risk assessment considered you low/mid risk of a chronic illness would you seek advice from a medical professional?

Mark only one oval.

- ◯ Yes
- ◯ No

10. To what extent do you agree with the following statement: “Life-Lens chronic illness risk assessment is a good tool for preventing chronic illness”?

Mark only one oval.

- ◯ Strongly Agree
- ◯ Agree
- ◯ Neutral
- ◯ Disagree
- ◯ Strongly Disagree

11. To what extent do you agree with the following statement: “I trust Life-Lens chronic illness risk assessment”?

Mark only one oval.

- ◯ Strongly Agree
- ◯ Agree
- ◯ Neutral
- ◯ Disagree
- ◯ Strongly Disagree

12. What would make Life-Lens chronic illness risk assessment more trustworthy?

13. Any final comments about the Life-lens system?