



**Dublin City University
School of Computing
ETHICS COMMITTEE (SEC)**

**NOTIFICATION FORM FOR LOW-
RISK PROJECTS AT
UNDERGRADUATE OR TAUGHT
MASTERS LEVELS**

Please read the following information carefully before completing your application. Failure to adhere to these guidelines will make your submission ineligible for review.

- 1. Download this form, complete the appropriate fields, attach additional pages (e.g. plain language statement) as appropriate and save as a PDF file**
- 2. Completed applications must be uploaded to your School of Computing GitLab repo, and must be located in “docs/ethics.pdf”.**
- 3. Your SUPERVISOR will then be notified automatically and must approve your approach initially.**
- 4. Your application should consist of one electronic file (PDF) only.** The completed application must include this form and also must incorporate all supplementary documentation, especially that being given to the proposed participants e.g consent forms, plain English language statement. It must be proofread and spell-checked before submission.
- 5. All sections of the application form must be answered as instructed and within the word limits given.**
- 6. Your ethics approval submission will be circulated to the School’s Research Ethics Committee and you will be notified if/when it is approved**
- 7. All projects must have either a derogation from an ethics approval requirement (as determined by your supervisor) OR must have an approved ethics submission (this form), before work with**

human subjects commences.

Applications which do not adhere to these requirements will not be accepted for review and will require resubmission

Applications must be completed on this form; answers in the form of attachments will not be accepted, except where indicated. No hard copy applications will be accepted. **The project must not commence work with human subjects until written approval has been received from the School of Computing Ethics Committee (SEC).**

PROJECT TITLE	Better Timetable App
PROJECT SUPERVISOR(S)	Dr. Dónal Fitzpatrick
START AND END DATE	23/09/2019 - 06/03/2020

Please ensure that all supplementary information is included in your application (in one electronic copy). If questionnaire or interview questions are submitted in draft form, please indicate this by putting (draft) after YES. A copy of the final documentation must be submitted for final approval when available.

My application has been collated as one electronic file which includes the following documentation:	INCLUDED (mark as YES)	NOT APPLICABLE (mark as N/A)
Bibliography		N/A
Recruitment advertisement (How are you getting volunteers?)		N/A
Plain language statement/Information statement	YES	
Informed consent form	YES	
Personal Data Security Schedule https://www.dcu.ie/sites/default/files/info/3._blank_data_security_schedule.xls		N/A
Evidence of external approvals related to the research		N/A
Questionnaire/Survey	YES	

Interview/Focus Group Questions		N/A
Debriefing material		N/A
Other (e.g. local government approval)		N/A

Please note:

1. Any amendments to the original approved proposal must receive prior SCEC approval.
2. As a condition of approval investigators are required to document and report immediately to SCEC any adverse events, any issues which might negatively impact on the conduct of the research and/or any complaint from a participant relating to their participation in the study

1. ADMINISTRATIVE DETAILS

Project Type (select one): Undergraduate Project – Final Year

Undergraduate Project – non-final Year

Taught Masters (Practicum)

YES

(projects at other levels, e.g. PhD or research Masters, should be approved by the University's REC if necessary)

1.1 INVESTIGATOR CONTACT DETAILS

SUPERVISOR(S): *Your supervisor and other academic staff who are assisting, it should be clear who is the person who is carrying out the research procedures.*

NAME	SCHOOL/UNIT	EMAIL
Dr. Dónal Fitzpatrick	School of Computing	donal.fitzpatrick@dcu.ie

STUDENT(S):

NAME	SCHOOL/UNIT	EMAIL
Oisín Henry	School of Computing	oisin.henry3@mail.dcu.ie
Caelan Smyth	School of Computing	caelan.smyth45@mail.dcu.ie

DECLARATION BY SUPERVISOR(S)

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 SCEC guidelines (<https://www.dcu.ie/researchsupport/researchethics.shtml>), the University's policy on Conflict of Interest, 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.

If there exists any affiliation or financial interest for researcher(s) in this research or its outcomes or any other circumstances which might represent a perceived, potential or actual conflict of interest this should be declared in accordance with Dublin City University policy on Conflicts of Interest.

I and my co-investigators 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.

Electronic Signature(s):

Supervisor(s): _____

Print Name(s) here: _____

Date: _____

2. PROJECT OUTLINE

2.1 SIMPLE DESCRIPTION (Max. 300 words)

Please outline, in terms that any non-expert would understand, what your research project is about, including what participants will be required to do. Please explain any technical terms or discipline-specific phrases.

"Better Timetable" is a web-app which will display student timetables in a readable and accessible way for all. The information will be displayed in a way that is clear and user-friendly, so that any member of the community may use it. The aim of the system is to provide more functionality, ease of use, and accessibility than the legacy timetable system. Both the legacy timetable system and the new alternative are limited in the features that they offer and have quality of life issues for end users. The system aims to allow DCU students to check their timetables with more ease. It will offer many functions which are not present within the legacy systems.

The only requirement for using the web-app is Internet access. Users will be asked to navigate the system, and provide feedback on what elements they found useful or recommendations of changes to make. This feedback and recommendations will be gathered through the use of a Google forms questionnaire. The data collected from users will be GDPR compliant. No personal data will be collected during the user evaluation process, and responses submitted by users will not be traceable back to them. We plan on analysing the results of this survey in order to make adjustments and quality of life changes to our web-app.

2.2 AIMS OF AND JUSTIFICATION FOR THE RESEARCH (Max. 400 words)

State the aims and significance of the project. Where relevant, state the specific hypothesis to be tested. Please provide a brief description of background research, a justification as to why this research project should proceed in that context and an explanation of any expected benefits to the community. NB – all references cited should be listed in an attached bibliography.

The main aim of the research is to find any end-user feedback on the web-app we are creating. Our goal is to create a more efficient version of the DCU Timetable service. The current timetable service and older timetable service both suffer from accessibility issues as well as functionality issues. We will be trying to find out what people like and dislike about the current and previous system in order to keep the good functions, and to improve on the elements which are lacking. We also hope to gain some unbiased feedback on the web-app that we have made, if it is easy or difficult to navigate, if there are functions that don't work, if there are functions that users would like to see implemented.

2.3 DESCRIBE THE METHODOLOGY BEING USED TO ACHIEVE YOUR STATED AIMS

Provide an outline of the proposed method and state who is doing which task – include details of data collection techniques, the tasks participants will be asked to do, the estimated time commitment involved, and how data will be analysed. If the project includes any procedure which is beyond already established and accepted techniques please include a description of it. There should be enough detail provided to facilitate ethical review, but applicants are encouraged to keep it as succinct as possible.

Participants will first be asked to navigate the current DCU timetable system and

asked to provide feedback on their experience. Participants will then be asked to navigate our web-app and perform a search for a timetable. They will be given a set of instructions on how to navigate the web-app. They will also be asked to test the secondary features of the web-app. After they have successfully navigated the site, they will be given a questionnaire to fill out in the form of a Google Forms document. This questionnaire will contain questions based on the older DCU timetable systems, questions about any accessibility issues they may suffer from, and then asked to review the user interface of the system that we have developed.

2.4 PARTICIPANT PROFILE

Provide the number, age range and source of participants. Please provide a justification of your proposed sample size. Please provide a justification for selecting a specific gender, age, or any other group if this is done in your project.

The main source of participants we will be targeting are DCU students who would use the timetable services on a regular basis. We feel that this will give the most accurate results due to the fact that they will have experience with the current systems and be able to provide constructive feedback.

2.4(a) PARTICIPANT VULNERABILITY

Are some or all of participants vulnerable in any way? (e.g by virtue of the group they belong to, people who have undergone traumatic or adverse emotional events, people with diminished cognitive ability, power relations between researchers and participants etc.)? If they are, state what this vulnerability (or vulnerabilities) is and justify why this research is being done with such participants.

There may be some vulnerability with target participants, however we are not selecting participants on the basis of any vulnerabilities. Our target participants are mainly DCU students. There is a possibility that some of these participants have some form of vulnerability such as intellectual or physical disabilities, however we are not specifically selecting individuals on this basis for participation.

2.4(b) CHILD PARTICIPANTS (anyone under 18 years old)

*If your participants include children, you **must** confirm that you are in compliance with the research specific guidelines as detailed in "Keeping Children Safe - Policies and Procedures supporting Child Protection at DCU" - available at: https://www4.dcu.ie/sites/default/files/policy/157%20-%20child_protection_handbook_rev1%282%29%281%29.pdf*

Please indicate your compliance with the following guidelines:	Mark here
We confirm that we have read and agree to act in accordance with the DCU Child Protection policy and procedures	N/A
We confirm that we have put in place safeguards for the children participating in the research	N/A
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)	N/a

2.5 EXPLAIN HOW PARTICIPANTS ARE TO BE RECRUITED

Please provide specific details as to how you will be recruiting participants. How will people be informed that you are doing this research? How will they be approached and asked if they are willing to participate? If you are mailing or phoning people, please explain how you have obtained their names and contact details. If a recruitment advertisement is to be used, please ensure you attach a copy to this application.

We will be recruiting participants through the use of only chat services such as Facebook Messenger. They will be informed of the purposes for the research, as well as the necessary steps to take to help us complete this research. They will be free to opt out at any time

2.6 PLEASE EXPLAIN WHEN, HOW, WHERE, AND TO WHOM RESULTS WILL BE DISSEMINATED, INCLUDING WHETHER PARTICIPANTS WILL BE PROVIDED WITH ANY INFORMATION AS TO THE FINDINGS OR OUTCOMES OF THE PROJECT?

Results will be shared with our project supervisor, Dr. Dónal Fitzpatrick, as well as whichever members of the School of Computing are marking our project demonstration. They will be disclosed verbally, and stored textually in the form of a blog post on our project's online blog.

2.7 ARE OTHER APPROVALS REQUIRED TO GAIN ACCESS TO ANOTHER LOCATION, ORGANISATION ETC.? (e.g. a School or company)

YES or NO

NO

(If YES, please specify from whom and attach a copy of the approval documentation. If this is not yet available, please explain when this will be obtained.)

3. RISK AND RISK MANAGEMENT

3.1 JUSTIFICATION OF STATED LEVEL OF RISK TO RESEARCH PARTICIPANTS

You must provide a justification for the stated level of risk, as indicated on the cover page of your application. Note that the level of risk may be influenced by the vulnerability of the research group, the methods employed and the nature of the research itself. For further information on risk levels, please refer to the Levels of Review information on the website: <https://www.dcu.ie/researchsupport/researchethics.shtml>

The navigation of the web-app and completion of the questionnaire on a group of DCU students does not require the participant to input any personal data. The participant can at any point choose to opt out of participation in this research. If a participant chooses to opt out, their feedback will not be recorded.

3.2 DOES THE RESEARCH INVOLVE:

	YES or NO
● use of a questionnaire? (attach copy)?	YES
● interviews (attach interview questions)?	NO
● observation of participants without their knowledge?	NO
● participant observation (provide details in section 2)?	NO
● audio- or video-taping interviewees or events?	NO
● access to personal and/or confidential data (including student, patient or client data) without the participant's specific consent?	NO
● administration of any stimuli, tasks, investigations or procedures which may be experienced by participants as physically or mentally painful, stressful or unpleasant during or after the research process?	NO
● performance of any acts which might diminish the self-esteem of participants or cause them to experience embarrassment, regret or depression?	NO
● investigation of participants involved in illegal activities?	NO
● procedures that involve deception of participants?	NO

● administration of any substance or agent?	NO
● use of non-treatment of placebo control conditions?	NO
● collection of body tissues or fluid samples?	NO
● collection and/or testing of DNA samples?	NO
● participation in a clinical trial?	NO
● administration of ionising radiation to participants?	NO

3.3 POTENTIAL RISKS TO PARTICIPANTS AND RISK MANAGEMENT PROCEDURES

Identify, as far as possible, all potential risks to participants (physical, psychological, social, legal, economic, etc.), associated with the proposed research. Please explain what risk management procedures will be put in place to minimise these risks.

There will be no risk posed to the participant. A participant may choose to opt out at any stage of the research. Their participation will not be recorded.

3.4 ARE THERE LIKELY TO BE ANY BENEFITS (DIRECT OR INDIRECT) TO PARTICIPANTS FROM THIS RESEARCH?

YES or NO
YES

(If YES, provide details.)

The benefits to participants would be the development of an easier to use and more accessible timetable system, tailored to their feedback.

3.5 ARE THERE ANY SPECIFIC RISKS TO RESEARCHERS?

Examples include use of dangerous materials, asking certain types of questions, research being undertaken in certain locations, researchers working alone in isolated areas, etc.

YES or NO
NO

(If YES, please describe and explain what risk management procedures will be put in place to minimise these risks.)

3.6 DEALING WITH ADVERSE/UNEXPECTED OUTCOMES

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 project.

In the event of some unexpected outcome, participants will be referred to the appropriate counselling/support services provided by DCU.

3.7 HOW WILL THE CONDUCT OF THE PROJECT BE MONITORED?

Please explain how the supervisor will monitor the conduct of the project (especially where several people are involved in recruiting or interviewing, administering procedures, etc.) to ensure that it conforms with the procedures set out in this application

The supervisor will be kept informed about testing taking place. They will also be added as a contributor to our Google Forms questionnaire and will be able to see user responses provided in the questionnaire.

3.8 SUPPORT FOR PARTICIPANTS

Depending on risks to participants you may need to consider having additional support for participants during/after the study. Consider whether your project would require additional support, e.g., external counselling available to participants. Please advise what support will be available.

We will be designing our app in accordance with W3C accessibility guidelines in order for it to be usable by all participants. In the event that a participant suffers some unexpected medical issue, we will make first aid counselling available to them.

3.9 DO YOU PROPOSE TO OFFER PAYMENTS OR INCENTIVES TO PARTICIPANTS?

YES or NO

NO

(If YES, please provide further details.)

3.10 DO ANY OF THE RESEARCHERS ON THIS PROJECT HAVE A PERSONAL, PHILOSOPHICAL, FINANCIAL OR COMMERCIAL INTEREST IN ITS OUTCOME THAT MIGHT INFLUENCE THE

INTEGRITY OF THE RESEARCH, OR BIAS THE CONDUCT OR REPORTING OF THE RESEARCH, OR UNDULY DELAY OR OTHERWISE AFFECT THEIR PUBLICATION?

YES or NO
NO

(If YES, please specify how this conflict of interest will be addressed.)

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4. CONFIDENTIALITY/ANONYMITY

4.1 WILL THE IDENTITY OF THE PARTICIPANTS BE PROTECTED?

YES or NO
YES

(If NO, please explain why.)

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IF YOU ANSWERED YES TO 4.1, PLEASE ANSWER THE FOLLOWING QUESTIONS:

4.2 HOW WILL THE ANONYMITY OF THE PARTICIPANTS BE RESPECTED?

Please bear in mind that where the sample size is very small, it may be impossible to guarantee anonymity/confidentiality of participant identity. Participants involved in such projects need to be advised of this limitation in the Plain Language Statement/Information Sheet. If you intend to fully anonymize the data, please provide details

Participants will be asked to fill out a Google Forms questionnaire after navigating the web-app. Google Forms provides an option to not collect the data of users who respond to it, and will provide their results anonymously if this option is selected.
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4.3 LEGAL LIMITATIONS TO DATA CONFIDENTIALITY

Participants need to be made aware that confidentiality of information provided cannot always be guaranteed by researchers and 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. This information should be included in your Plain Language Statement and Informed Consent Form. Depending on the research proposal and academic discipline, you may need to state additional specific limitations.

State how and where participants will be informed of these limitations

Participants will be informed in the Plain Language Statement and Informed Consent Forms on how their data will be handled during the course of this research.

5. PERSONAL DATA - COMPLIANCE WITH THE GENERAL DATA PROTECTION REGULATION

Personal data is data relating to a living individual (i.e. the 'Data Subject') who is, or can be, identified either from the data itself or from the data in conjunction with other information that is in, or is likely to come into, the possession of the 'Data Controller' (i.e. DCU and its constituent units e.g. research teams etc.). **Further information on personal data is available from the DCU Data Protection Unit at <https://www.dcu.ie/ocoo/dp/guides.shtml>**

5.1 IS PERSONAL DATA BEING PROCESSED AS PART OF THIS PROJECT?

YES or NO
NO

If YES, Please indicate your compliance with the following guidelines:	Mark here
We confirm that we have read and agree to act in accordance with DCU Data Protection Unit guidance and procedures regarding personal data	
We confirm that we have put in place a Personal Data Security Schedule (PDSS) for the project and have attached it to this application	

Please see the **GDPR and the Research Ethics Process** section of the [SCEC main webpage](#) for guidance

IF YOU ANSWERED YES TO 5.1, PLEASE ANSWER THE FOLLOWING QUESTIONS:

5.2 WHAT KIND OF PERSONAL DATA IS BEING PROCESSED?

Note special categories of personal data include health data, genetic data and/or data relating to ethnicity/race of participants, their sex lives and/or sexual orientation

5.3 WILL ANONYMISATION/PSEUDONYMISATION OF THE PERSONAL DATA BE UNDERTAKEN?

YES or NO	
...	

(If NO, please explain why.)

6. DATA/SAMPLE STORAGE, SECURITY AND DISPOSAL

For the purpose of this section, "Data" includes that in a raw or processed state (e.g. interview audiotape, transcript or analysis). "Samples" include body fluids or tissue samples.

6.1 HOW AND WHERE WILL THE DATA/SAMPLES BE STORED?

Note that the SCEC recommends that all data be stored on campus – please justify any off-site storage.

The data will be stored in DCU's instance of Google Drive Cloud Services, and as such will be protected from Google's policy on data harvesting.

6.2 WHO WILL HAVE ACCESS TO DATA/SAMPLES?

If people other than the main researchers have access, please name who they are and explain for what purpose.

Only the project supervisor and the main researchers will have access to the data.

6.3 HOW LONG IS THE DATA TO BE HELD/RETAINED FOR?

Note that with very few exceptions **personal data** may not be retained indefinitely. It is up to the unit or research team to establish an upper retention limit for each category of personal data under its control.

Data will be retained in accordance with the DCU policy on retention of examinable material.

6.4 IF DATA/SAMPLES ARE TO BE DISPOSED OF, PLEASE EXPLAIN HOW, WHEN AND BY WHOM THIS WILL BE DONE?

Note that simply deleting files is not sufficiently secure. The additional steps to be taken to maintain data security should be given. **Personal data** must be disposed of in a safe and secure manner at the end of its retention period. If the data is stored in a: a) paper based format then shredding or disposal via a secure bin is recommended; or b) if it is stored in an electronic based format then deletion of the record or full anonymization of the data is recommended. If data/samples are NOT being disposed of, please justify this decision.

The results of the questionnaire will be removed when the questionnaire is deleted. The questionnaire will be deleted by the owner of the document, in our case this is Caelan Smyth.

7. PLAIN LANGUAGE STATEMENT (Attach to this document. Approx. 400 words)

A Plain Language Statement (PLS) should be used in all cases. This is written information in plain language that you will be providing to participants, outlining the nature of their involvement in the project and inviting their participation. The PLS should specifically describe what will be expected of participants, the risks and inconveniences for them, and other information relevant to their involvement. Please note that the language used must reflect the participant age group and corresponding comprehension level – if your participants have different comprehension levels (e.g. both adults and children) then separate forms should be prepared for each group. The PLS can be embedded in an email to which an online survey is attached, or handed/sent to individuals in advance of their consent being sought. See link to sample templates on the website: <https://www.dcu.ie/researchsupport/ethicsapproval.shtml>

PLEASE CONFIRM WHETHER THE FOLLOWING ISSUES HAVE BEEN ADDRESSED IN YOUR PLAIN LANGUAGE STATEMENT/ INFORMATION SHEET FOR PARTICIPANTS:

	YES or NO
Introductory Statement (Supervisor and student names, school, title of the research)	YES
What is this research about?	YES
Why is this research being conducted?	YES
What will happen if the person decides to participate in the research study?	YES

How will their privacy be protected?	YES
How will the data be used and subsequently disposed of?	YES
What are the legal limitations to data confidentiality?	YES
What are the benefits of taking part in the research study (if any)?	YES
What are the risks of taking part in the research study?	YES
Confirmation that participants can change their mind at any stage and withdraw from the study	YES
How will participants find out what happens with the project?	YES
Contact details for further information (including SCEC contact details)	YES
Details relating to GDPR Compliance if Personal Data is being sought	NO

If any of these issues are marked NO, please justify their exclusion:

We will not be collecting any personal data during the course of this research, thus we will not need to inform of details pertaining to GDPR.

8. INFORMED CONSENT FORM *(Attach to this document. Approx. 300 words)*

In most cases where interviews or focus groups are taking place, an Informed Consent Form is required. This is an important document requiring participants to indicate their consent to participate in the study, and give their signature. If your participants are minors (under 18), it is best practice to provide them with an assent form, while their parents/guardians will be given the Informed Consent Form. In cases where an anonymous questionnaire is being used, it is enough to include a tick box in the questionnaire (underneath the information section for participant), where participants can indicate their consent. See link to sample templates on the website: <https://www.dcu.ie/researchsupport/ethicsapproval.shtml>

NB – IF AN INFORMED CONSENT FORM IS NOT BEING USED, THE REASON FOR THIS MUST BE JUSTIFIED HERE.

Informed Consent Form

Research Study Title: BetterTimetables (Computer Applications 3rd year project)

School/Unit: School of Computing

Principal Investigator: Dr. Dónal Fitzpatrick

Other Investigators: Oisín Henry, Caelan Smyth

Project Supervisor: Dr. Dónal Fitzpatrick

The purpose of this research is to gather user feedback and user requirements for the BetterTimetables web-app. It is also intended to gauge the accessibility and readability of the web-app. No data will be collected in this process, and users will remain anonymous throughout.

I will be required to use the BetterTimetables web-app and fill out a questionnaire afterwards which pertains to my experience in using the web-app.

Participant – please complete the following (Circle Yes or No for each question)

<i>I have read the Plain Language Statement (or had it read to me)</i>	Yes/No
<i>I understand the information provided</i>	Yes/No
<i>I have had an opportunity to ask questions and discuss this study</i>	Yes/No
<i>I have received satisfactory answers to all my questions</i>	Yes/No
<i>I am aware that my interview will be audiotaped</i>	Yes/No

I understand that participation in this research is voluntary and that I may opt out of this research study at any time without consequence.

I understand that the data collected in the course of this research study will be accessible to the investigators, the project supervisor, and the examiners. I also understand that confidentiality of the information provided cannot always be guaranteed and can only be protected within the limitations of the law. It is possible for data to be subject to subpoena, freedom of information claim or mandated reporting by some professions.

I understand that the data I provide will be retained until May 2020, at which point it will be destroyed.

I have read and understood the information in this form. My questions and concerns have been answered by the researchers, and I have a copy of this consent form. Therefore, I consent to take part in this research project

Participants Signature: _____

Name in Block Capitals: _____

Witness:_____

Date:_____

Plain Language Statement

Research Title: BetterTimetables (Computer Applications 3rd year project)

School/Unit: School of Computing

Principle Investigator: Dr. Dónal Fitzpatrick (donal.fitzpatrick@dcu.ie)

Other Investigators: Oisín Henry (oisin.henry3@mail.dcu.ie), Caelan Smyth (caelan.smyth45@mail.dcu.ie)

Supervisor: Dr. Dónal Fitzpatrick

The research being conducted is for the development of the “BetterTimetables” web-app. The “BetterTimetables” web-app aims to improve on the capabilities and functions of the current DCU Timetable systems. Many issues are currently present in the DCU systems such as complex navigation and accessibility. The “BetterTimetables” web-app hopes to solve these issues and provide users with an easy and effective manner to retrieve their timetables.

Participants will be asked to navigate the “BetterTimetables” web-app and then be asked to fill out a questionnaire once completed. The participant will be asked to use the search form to retrieve a timetable from a set list of timetables. Certain questions about their experience using the web-app will follow in a questionnaire. This research is being carried out in order to make our web-app as user-friendly as possible. If the participant wishes to find updates on the assignment they may contact us directly at the email addresses listed above.

No personal information about the participant will be recorded at any point during this research study. The navigation of the web-app and completion of the questionnaire should not pose any risk to the participant.

The estimated time for the completion of this investigation will be 10 minutes. The investigation will not take longer than 30 minutes.

The confidentiality of the information provided cannot always be guaranteed and can only be protected within the limitations of the law. It is possible for the data to be subject to subpoena, freedom of information claim or mandated reporting by some professions.

The information pertaining to this investigation will be destroyed in May 2020.

This investigation is carried out solely on a voluntary basis. There is no incentive being offered to participants. If the participant wishes to discontinue involvement in the investigation at any point they are free to do so and their results will not be recorded.

If participants have any concerns about this study and wish to contact an independent body, 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

Questionnaire

Section 1: Open Timetables & Accessibility

Questions cover use of Open Timetables & if any accessibility issues are present

*Required

1.

How often do you use Open Timetables? *

Mark only one circle.

- ☐ Daily
- ☐ Every few days
- ☐ Once a week
- ☐ Seldom
- ☐ Never

2.

Do you have any complaints to make about the Open Timetables system? *

Mark only one circle.

- ☐ Yes
- ☐ No

3.

If you answered Yes to the previous question, please specify. Please be as detailed as possible

4.

Do you suffer from any accessibility issues (visual impairment, colour blindness, loss of limbs etc.)? *

Mark only one circle.

- ☐ Yes
- ☐ No
- ☐ Rather not say

5.

If you answered Yes to the previous question, do you use any assistive technologies?

Tick all that apply.

- ☐ Screen reader
- ☐ Keyboard-only navigation
- ☐ Mouse-only navigation
- ☐ Voice recognition
- ☐ Other: _____

Section 2: BetterTimetables Experience

Feedback on the experience of using the BetterTimetables web-app

6.

How did our Web-App compare to the Open Timetables system? *

7.
Which system would you prefer to use? *
Mark only one circle.

- ☐ Open Timetables
- ☐ Better Timetables
- ☐ Neither

8.
Do you have any recommendations for features we could implement, change, or remove?
