# Appendix

## Research Proposal Form Student Name: Do Huu Duy

**Tutor:** Luong Hoang Huong

**Unit 13:** Computing research project

**Student Number:** GCC200018

**Date:** 15/4/2023

**Propose title:** “PROTECTION OF THE ENVIRONMENT THROUGH THE COLLECTION AND RECYCLING OF OLD DIGITAL DEVICES”

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| **Section One: Title, objective, responsibilities** |
| **Research question:** The environmental implications of e-waste and ways to reduce it  **Objectives**   * Survey environmental damage caused by digital devices * Survey of people's demand for recycling equipment * Survey on the current status of e-waste |
| **Section Two: Reasons for choosing this research project** |
| Reasons for choosing the project:   * The number of digital devices is increasing, and this has increased the amount of technology waste and bad impact on the environment, so I chose this study about this project to find out how to solve it and make the environment better. * With this study, I will have access to more digital devices and gain more knowledge in collecting and recycling them, which makes me feel excited, so I choose to study about this topic * I want to understand the importance of the environment to us and the use and maintenance of digital devices in today's digital age to contribute to environmental protection. So I chose to research this topic |
| **Section Three: Literature sources searched** |
| The initial sources which could help me to answer those questions:   1. Definition about the research: <https://www.geeksforgeeks.org/what-is-e-waste/> 2. Impact of E-waste: <https://earth.org/environmental-impact-of-e-waste/> 3. Method to protect environment from E-waste: <https://www.veracityworld.com/e-waste-problems-and-solutions/> |
| **Section Four: Activities and timescales** |
| 1. Research Proposal   1.1. Finding document  1.2. Create aims for project  1.3. Create scopes for project  1.4. **Milestone 1 [22 – March]:** Get feedback about research proposal   1. Research Plan   2.1. Create WBS  2.2. Create Gantt Chart  2.3. Preparation plan for Primary Research  2.4. Preparation plan for Secondary Research  2.5. **Milestone 2 [30 – March]:** Get feedback for Primary Research plan   1. Primary Research   3.1. Create Primary Research question  3.2. Create survey form to survey  3.3. **Milestone 3 [13 – April]:** Get and evaluate result   1. Secondary Research   4.1. Review Digital Transformation  4.2. Review E-waste affects the environment  4.3. Review result of Primary Research  4.4. **Milestone 4 [28 – April]:** Get feedback for result of Secondary Research   1. Final Report   5.1. Write final report  5.2. **Milestone 5 [4 – May]:** Get feedback and edit final report  5.3. **Milestone 6 [5 – May]:** Submit final report |

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| **Section Four: Activities and timescales** |
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| **Section Five: Research approach and methodologies** |
| * Primary and Secondary research * Qualitative research * Research methods: survey |
| **Comments and agreement from tutor** |
| [This part not for student] Comments (optional):  I confirm that the project is not work which has been or will be submitted for another qualification and is appropriate.  Agreed: .......................................................(Name) ......................................... (Date) .......................... |
| **Comments and agreement from project proposal checker (if applicable)** |
| [This part not for student] Comments (optional):  Agreed: .......................................................(Name) ......................................... (Date) .......................... |
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# Ethical Form

Ethical Form

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

Before completing this form, we advise that you discuss your proposed research fully with your Unit Tutor.

## Please complete this form in good time before your research project is due to commence.

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| **Section One: Basic details**  **Project title:** PROTECTION OF THE ENVIRONMENT THROUGH THE COLLECTION AND RECYCLING OF OLD DIGITAL DEVICES  **Student name:** Do Huu Duy  **Student number:** GCC200018  **Program:** Majority of Computing Science  **School:** Greenwich University of Can Tho, Vietnam  **Intended research start date: Intended research end date:** |
| **Section Two: Project summary**  Please select all research methods that you plan to use as part of your project:   * Online Surveys * Primary research * Secondary research * Data analysis   Other (please specify): |
| **Section Three: Participants**  Please answer the following questions, giving full details where necessary.  **Will your research involve human participants?**   * Including employees of technology companies and university students in Information Technology from the Greenwich University of Can Tho, Vietnam   **Who are the participants? Tick all that apply:**   * Children aged 12–16: ✕ Young people aged 17–18: ✕ Adults: ✓ |

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| **How will participants be recruited (identified and approximately)?**   * University students in Information Technology from the Greenwich University of Can Tho, Vietnam   **Describe the processes you will use to inform participants about what you are doing:**   * We will communicate the research process to the participants by sending emails and meetings. Besides, the processes that we carry out for the research project will be clearly shown in WBS in part "4. WBS" of "I. Introduction the purpose of the research" partHow will you obtain consent from participants? Will this be written?   **Studies involving questionnaires:**  Will participants be given the option of omitting questions they do not wish to answer?  Yes: ✓ No: ▯  **If No, please explain why below and ensure that you cover any ethical issues arising from this: Studies involving observation:**  Confirm whether participants will be asked for their informed consent to be observed.  Yes: ✓ No: ▯  Will you debrief participants at the end of their participation (i.e. give them a brief explanation of the study)?  Yes: ✓ No: ▯  Will participants be given information about the findings of your study?(This could be a brief summary of your findings in general.)  Yes: ✓ No: ▯ |
| **Section Four: Data storage and security**  Confirm that all personal data will be stored and processed in compliance with the Data Protection Act (1998):  Yes: ✓ No: ▯  Who will have access to the data and personal information?   * The researcher of this project   **During the research:**  Where will the data be stored?   * In data server of researcher |

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| Will mobile devices (such as USB storage and laptops) be used?  Yes: ✓ No: ▯  If yes, please provide further details:  **After the research:**  Where will the data be stored?   * In cloud   How long will the data and records be kept for and in what format?   * PDF file * Saved based on the ability and time that the project works.   Will data be kept for use by other researchers?  Yes: ▯ No: ✓  If yes, please provide further details: |
| **Section Five: Ethical issues**  Are there any particular features of your proposed work which may raise ethical concerns? If so, please outline how you will deal with these:  It is important that you demonstrate your awareness of potential risks that may arise as a result of your research. Please consider/address all issues that may apply. Ethical concerns may include, but are not limited to the following:   * Informed consent. * Potentially vulnerable participants. * Sensitive topics. * Risks to participants and/or researchers. * Confidentiality/anonymity. * Disclosures/limits to confidentiality. * Data storage and security, both during and after the research (including transfer, sharing, encryption, protection). * Reporting. * Dissemination and use of your findings. |
| **Section Six: Declaration**  I have read, understood and will abide by Security Policy of Google Form:  Yes: ✓ No: ▯  I have discussed the ethical issues relating to my research with my Unit Tutor: |

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| Yes: ✓ No: ▯  **I confirm that to the best of my knowledge:**  The above information is correct, and this is a full description of the ethical issues that may arise during my research.  **Name:** Do Huu Duy  **Date:** 15/4/2023  **Please submit your completed form to:** Greenwich University of Can Tho, Vietnam |