**Macao Polytechnic University  
Faculty of Applied Sciences, Computing Programme**

**Ethics Checklist for Student Projects**

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| **Name of student:**  *(leader of the team, if applicable)* | **Jane Liu** |
| **Student number:** | **P1908345** |
| **Ethics training completed:**  *(please specify)* | COMP111 Introduction to Computing |
| **Programme:** | BSc in Computing 🞏 MSc in Big Data and IoT 🞏 PhD in Computer Applied Technology |
| **Module:** | Comp490 Final Year Project |
| **Title of project:** | Parsons problem generator and solver |
| **Supervisor:** | Philip Lei |

**Instructions**

Answer the following questions honestly. If your answer falls into a shaded box, you must provide additional information on how you will handle the related ethics issues on the last page of this form.

**Project summary**

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| Please provide more information on your project/dissertation proposal below (100-200 words).  This project aims to design and build a website for computer usage to generate Parsons problems according to the original Python code, make students solve the generated Parsons problems, and provide feedback for the solutions. To be more specific, this project will have a webpage for authorized users to input the original questions with the correct solution and necessary distractors and variants. Besides, this project will have a function to generate Parsons problems according to the given questions, solutions, distractors, and variants. In addition, this project will have a webpage for students to filter the scope of Parsons problems to practice, like introductory programming, data structure and algorithms, etc. Furthermore, this project will have a webpage to show the generated Parsons problems and let students drag and drop the correct answers to the appropriate positions. Lastly, this project will have a function to evaluate the code generated by students and give them some feedback. |

**Participants (Consent procedures and possible harm)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | **Yes** | **No** | **N/A** |
| 1 | Does your project include human participants?  If no, you can skip the rest of this section. |  | ✓ |  |
| 2 | Will any of the participants be from vulnerable groups, e.g. children under 18, people with communication difficulties, patients in hospital?  If yes, please specify: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |  |  |
| 3 | Will you tell participants that their participation is voluntary? |  |  |  |
| 4 | Will you obtain written consent for participation? |  |  |  |
| 5 | Will you tell participants that they may withdraw from the research at any time and for any reasons without penalty? |  |  |  |
| 6 | Is there any realistic risk that any participants could experience either physical or psychological distress or discomfort? |  |  |  |

**Data Protection**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | **Yes** | **No** | **N/A** |
| 7 | Will any non-anonymised and/or personalized data be generated and/or stored? |  | ✓ |  |
| 8 | Will you have access to documents containing sensitive data about living individuals? |  | ✓ |  |

**Researcher Safety**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | **Yes** | **No** | **N/A** |
| 9 | Will you be exposed to any risks greater than those encountered in their normal study/working life? E.g. operation of non-standard equipment or extended |  | ✓ |  |
| 10 | Will you be exposed to highly addictive or illegal activities (e.g. gambling, drugs) during the research? |  | ✓ |  |

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| --- |
| Please explain how the identified potential research ethics issue will be handled.  None |
| Any other issues?  None |

**Declaration**

|  |  |
| --- | --- |
| **Student**  I have read the instruction carefully and reported honestly the potential ethics issues about the project.  Text  Description automatically generated with medium confidence  ─────────────  Date: 07/09/2023 | **Supervisor**  To the best of my knowledge, the student has reported honestly the potential ethics issues about his/her project.  ─────────────  Date: |

This form is largely based on the ethical approval documents from Cardiff University <https://www.cs.cf.ac.uk/ethics/> and University of Glasgow <http://www.dcs.gla.ac.uk/ethics/>