**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)* | **Versa Xu** |
| **Student number:** | **P1908351** |
| **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:** | Shader-Based Image Processing Tools |
| **Supervisor:** | Liam Li |

**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).  The project aims to design and generate some graphics processing tools under the functionality of GPU on a interactive online software. The whole product will provide a website containing many convenient and efficient functions in processing digital images, such as image flick, image twist, image enhancement, and image blur, etc. The power of GPU with 4-8 or more cores can maximize the processing speed and save more running memory compared to using CPU. Subsequently, we will do more research on the mathematics in the field of matrix and find some more advanced algorithms to process digital images, and develop some solutions to protect user privacy. |

**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? |  | √ |  |

|  |
| --- |
| Please explain how the identified potential research ethics issue will be handled. |
| Any other issues?  NO. |

**Declaration**

|  |  |
| --- | --- |
| **Student**  I have read the instruction carefully and reported honestly the potential ethics issues about the project.  微信图片_20220913135737(1)  ─────────────  Date: 08/09/2022 | **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/>