Ethics Review Form

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| Title Of Research Project | Evaluation of a quantum stabiliser circuit simulator web application |
| CRSID of project leader | Ad2160 |
| CRSID of supervisor | Pm830 |
| Names of applicants | Alison Dauris |
| Email address | [Ad2160@cam.ac.uk](mailto:Ad2160@cam.ac.uk) |
| Start Date | 10/03/2025 |
| End Date | 14/03/2025 |
| Type of study | Controlled Experiments for Technology Evaluation |
| Funding Body |  |
| Brief description | Research Objectives: My aim is to evaluate the web application that I have developed. I aim to evaluate the usability of the interface and identify usability issues.  How the study will be carried out: I will give the participants the task of familiarising themselves to the interface with the aim of creating a visual representation for a distance 3 surface code. I will keep track of the error rate, do think-aloud protocol and a post-task survey.  How the participants will be recruited: I have decided to recruit Part II students who have attended the Quantum Computing Module. |
| Precautions taken | I will inform myself about participants’ rights and disclose these rights to the participants.  I will make sure to emphasise that I am not testing Quantum Error Correction knowledge, that I am testing the usability of my web app. If they struggle with the task, I will reassure them further and emphasise that this experience is due to the interface being inadequate and that it is not a reflection of their own ability.  I will prepare a consent form stating the nature of the experiment so that participants can understand that participation is voluntary.  I will collect no personal data.  I will remind participants they are free to withdraw at any time. |