Participant Information Sheet

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| Title of the research project | Evaluation of a quantum stabiliser circuit simulator web application |
| Purpose of the research | The purpose of this study is to evaluate the usability and effectiveness of a web app designed to assist simulating quantum error correction codes. The aim is to identify any usability issues and understand how users interact with the interface. |
| What participation will involve | Participation will involve:   * Familiarising yourself with the interface of the web application. * Completing the task of generating an error graph for a distance-5 repetition code. * Thinking aloud during the task to describe your thoughts and actions. * Completing a brief post-task survey and providing open feedback on your experience.   During the task:   * I will observe your interaction with the interface. * I will time how long you take to complete the task. * I will take notes on the steps you follow and any comments you make during the think-aloud process. |
| What types of personal data will be collected | No personal data will be collected. All data gathered will relate solely to your interaction with the interface. |
| Benefits of participation | Gain further insight into quantum error correction codes and explore an exciting new interface. |
| Risks of participation | You may experience confusion regarding quantum error correction concepts. There is a small risk of physical discomfort, such as hand strain, from using the trackpad for an extended period. |
| Statement of participation | Participation is **entirely voluntary. You may withdraw from the project at any time** without providing a reason, without prejudice, now or in future. |
| What happens upon withdrawal | All data collected up to that point will be deleted and not used in the evaluation. If withdrawal occurs after the data has been anonymised and incorporated into the analysis, it may not be possible to remove your specific data, but it will not be traceable to you. |
| How the data collected will be handled and protected | Your data will be pseudonymised using a participant number and no identifying information will be recorded.  Data will be securely stored and only used for analysis as part of this research project.  The data will be analysed using qualitative methods such as categorical coding. |
| How the results will be disseminated | Results will be presented in the evaluation section of my dissertation. No individuals will be identifiable in any reporting. |
| Details of potential future re-use | There is little to no likelihood of your data being re-used in future research. If any future use is considered, I will seek your consent before proceeding. |
| Who to contact for further information | Alison Dauris, ad2160 |
| How to raise a concern | Alison Dauris, ad2160 or Alan Blackwell, afb21 |
| Generic Cambridge University Information Compliance | <https://www.information-compliance.admin.cam.ac.uk/data-protection/research-participant-data> |