

PLAIN LANGUAGE STATEMENT



TO:

Plain Language Statement

Date: 31/8/2024

Full Project Title: Automated Requirement Sets Generation from Requirements workshop Using LLMs

Principal Researcher: Xiao Liu

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The purpose of this study is to evaluate the effectiveness of AI in generating accurate and complete requirement documents from recorded requirement engineering meetings. This study aims to understand how emotions influence the process of gathering and defining software requirements. Insights from this research may inform the development of software tools that better support users' emotional and practical needs. Participants will complete an anonymous online survey, which includes questions about recent emotional experiences and responses to software requirements. The survey will take approximately 25–35 minutes to complete. Then, the process involves collecting recordings of requirement meetings, where stakeholders such as project managers and clients discuss software requirements. These recordings will then be transcribed into text format and subsequently analyzed using advanced language models to generate requirement sets. Finally, experts in the field will evaluate these AI-generated documents, providing feedback on aspects such as quality, relevance, and feasibility.

To protect the privacy of all participants, including meeting participants and expert evaluators, several measures will be implemented. For requirement meeting participants (such as project managers and clients), personal identifiers will be removed during transcription to ensure that discussions are de-identified. Experts reviewing the AI-generated documents will also have their feedback anonymized, and any personal identifiers will be coded to ensure that no individual can be directly identified. Only authorized research team members will access this data, which will be securely stored on encrypted servers.

This study follows strict ethical guidelines to protect participant confidentiality and privacy while contributing to advancements in AI-driven documentation in software engineering.

Data will be stored securely for 2 year, as per Deakin University's guidelines. This study does not involve any laws requiring mandatory disclosures, nor does it seek to retain data

Plain Language Statement & Consent Form to
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perpetually for historical or cultural value. Intellectual property rights will remain with the research institution, and data sharing will be managed responsibly under ethical guidelines, ensuring participant confidentiality.

Our approach to consent involves ensuring participants fully understand the study through clear and simple language in the consent forms, providing translations for non-English speakers, and offering verbal explanations for those with literacy issues. Participation is entirely voluntary, with participants free to withdraw at any time without consequences.

Contacts:

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Complaints

If you have any complaints about any aspect of the project, the way it is being conducted or any questions about your rights as a research participant, then you may contact:

The Human Research Ethics Office, Deakin University, 221 Burwood Highway,
Burwood Victoria 3125, Telephone: 9251 7129, research-ethics@deakin.edu.au

Please quote project number [2024-258](#).