**SMU-IRB: Participant Information Sheet and Informed Consent Form (Online)**

Title of Research Study as it will be stated on the Informed Consent Form provided to participants: Interview on AI Software Quality Assurance

Principal Investigator, Title, and Affiliation:

WANG Chenyu, Research Engineer, Singapore Management University.

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1. Purpose of Research Study:

This study aims to address the gap in understanding how to effectively ensure the quality and reliability of Artificial Intelligence (AI)-enabled software. In simple terms, we want to find better ways to test and evaluate AI technologies so that they perform consistently, safely, and accurately for users without causing any harm or unintended consequences. This is important as AI software becomes more integrated into our daily lives, impacting various industrial and personal decision-making processes.

While there have been significant advancements in quality assurance (QA) for traditional software systems, research on QA for AI software has not kept up at the same pace. Traditional software QA techniques and practices might not be fully applicable or adequate for AI software, as AI software often involve complex algorithms, learning processes, and dynamic behaviors that differ from that in classic software. Therefore, the proposed study seeks to develop and enhance our understanding of quality assurance methods specifically tailored for AI software, with a focus on identifying and promoting best practices within the industry, ensuring optimal performance and safety in real-world applications.

1. Study Procedures and Duration:

1. \*\*Confirmation of Participation\*\*: Once you confirm your willingness to participate in the validation study, we will provide you the online version of the MCQ.

2. \*\*Completion of the Questionnaire\*\*: You will be asked to complete the questionnaire by indicating your level of agreement or disagreement with each of the identified principles. The questionnaire is designed to be intuitive and straightforward and your responses will be anonymous. We expect that it will take approximately 15-30 minutes to complete, depending on your level of engagement with each question.

3. \*\*Return of the Questionnaire\*\*: If you choose the online version, you can submit your responses immediately upon completion via the Google Form.

4. \*\*Data Analysis\*\*: After we receive your responses, our team will begin analyzing the data. Please note that your responses will remain confidential and will only be used for the purposes of this study.

5. \*\*Completion of the Study\*\*: We aim to complete the entire validation study, including data analysis and report writing. Upon completion of the study, we will share a summary of the results with you if you express interest in knowing the findings.

Your participation at each stage is voluntary, and you are free to skip questions or withdraw from the study at any time without penalty. We appreciate your consideration to participate in this important research.

Participants can withdraw from the study at any time before submitting by simply closing the browser window.

You will not be able to withdraw from the study after you have submitted your responses as the survey responses are anonymous and we will not be able to identify your responses.

1. Benefits of Study:

The study is expected to contribute to the scientific understanding of quality assurance methods specifically tailored for AI-enabled software. By identifying and promoting best practices, the research aims to ensure consistent, safe, and accurate AI performance, minimizing harm and unintended consequences. The findings will bridge the gap between traditional software QA techniques and AI software requirements, fostering the development of reliable and robust AI systems across different sectors. This will ultimately enhance innovation, efficiency, and safety in real-world applications, benefiting organizations and end-users alike.

1. Possible Risks of Study:

There are no anticipated risks in this study beyond what one would typically experience in everyday life.

Confidentiality and Privacy of Research Data :

The information you provide will be kept strictly confidential. Only the Principal Investigator and his/her co-investigators will have access to the raw data. Demographic information collected will be aggregated so that it would not be possible to identify individuals.

Anonymized data from this study may be shared with qualified researchers or research institutions, where deemed appropriate, consistent with academic association, journal, or university policies. Any reports from this study will be done at the aggregate level, and/or with individual and company information anonymized or disguised, so that it would not be possible to identify participants or their companies.

1. Contact Details:

* For questions/ clarifications on this study, please contact the Principal Investigator, WANG Chenyu, at email address chenyuwang@smu.edu.sg, and/or office/mobile number: +6593965944.
* If you have any questions or concerns regarding your rights as a participant in this research study and wish to contact someone unaffiliated with the research team, please contact the SMU Institutional Review Board Secretariat at [irb@smu.edu.sg](mailto:irb@smu.edu.sg) or + 65 68281925. When contacting SMU IRB, please provide the title of the Research Study and the name of the Principal Investigator, or quote the IRB approval number (IRB-23-065-E017(523)).
* Please bookmark or save a copy of this information sheet and informed consent form for your records.

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Principal Investigator’s Declaration:

I have explained and defined in detail the research procedures in which the participant (or legal representative) has consented to participate.

I also declare that the data collected for this research study will be handled as stated above.

Wang Chenyu, 4th May 2023

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Principal Investigator’s Name and Date:

Participant’s Declaration:

I understand that participation is voluntary. Refusal to participate will involve no penalty.

I declare that I am at least 18 years of age.

If I am affiliated with Singapore Management University, my decision to participate, decline, or withdraw from participation will have no adverse effect on my status at or future relations with Singapore Management University.

I have read and fully understood the contents of this form, and hereby give consent to the Singapore Management University research team and its affiliates for this project to collect and/or use my data for the purpose(s) described in this form.

By clicking the “Continue/Next” button, I consent to participate in this study and agree to all of the above.

[Continue/Next Button]

If you do not wish to participate in the survey, you may close the browser now to exit.