



**MONASH**  
University

Department of Software Systems and Cybersecurity

Monash University  
Clayton Campus, Wellington Rd, Clayton VIC 3800, Australia.

## **EXPLANATORY STATEMENT**

Software Practitioner

Project Title:	Understanding Requirements Changes in Agile Software Development
Name of Principal Investigator/ Supervisor:	Rashina Hoda
Name of Co-Investigator/ Supervisor:	John Grundy
Name of Student Researcher:	Kashumi Madampe

### **Researcher Introduction**

Rashina Hoda is an Associate Professor in the Department Software Systems and Cybersecurity, Faculty of Information Technology, Monash University, Australia.

John Grundy is a Professor in the Department Software Systems and Cybersecurity, Faculty of Information Technology, Monash University, Australia.

Kashumi Madampe is a PhD candidate in the Department Software Systems and Cybersecurity, Faculty of Information Technology, Monash University, Australia.

### **Project Description and Invitation**

Agile is practised commonly in software development industry. Agility is embracing requirements changes. By this project, we investigate what kind of requirements changes prevail in agile software development environment, how these requirements changes impact the teams and members and how these requirements changes can be managed effectively by the teams and members as agile software development teams are self-organizing.

As a software practitioner using agile software development, we invite you to participate in this study and your participation is voluntary. Upon showing willingness to participate, further information will be given about the project, participant's demographics will be collected and interview time will be arranged. All data collected will be kept confidential. See 'Anonymity and Confidentiality' section below for details.

### **Project Procedures**

This research uses both Quantitative and Qualitative research methods. Data will be collected using face-to-face, semi-structured interviews, pre-interview questionnaires, surveys, observation of workplace and practices, and by mining software repositories. The interview will be approximately 30-45 minutes long and will be audio-recorded and transcribed to assist in analysis. Observations will be approximately 2 hours long and will involve the research observing workplace settings and practices without causing any major disruption to normal mode of work. Photographs of workplace settings and artefacts may be taken with permission from the participants.

Analysis of the data will involve comparing data from one interview to another, quantitative analysis of survey data, and mined software repository data in order to identify patterns of common concepts.

Further abstraction of data at different levels will lead towards a ground theory which will help explain the change management strategies, challenges faced by software practitioners and their solution strategies.

Results from this research will be published for the benefit of greater practitioner and researcher communities. Identity of the participant will not be published in any publication arising out of this research keeping your identity confidential. The responses you make will be published anonymously.

### **Data Storage/ Retention/ Destruction/ Future Use**

Data (digital and paper artefacts) will be securely stored at the researcher's office at HumaniSE lab, Monash University under password protection (for digital artefacts) and under lock and key (for paper artefacts) and for a period of 6 years and destroyed thereafter. Whilst overseas, data will be kept safe in the shared Google Drive of the investigators. Furthermore, anonymous responses of the participants in the form of the interview transcriptions with the participant IDs, photographs or any other artefacts will be uploaded to the GitHub repository of the student researcher. The anonymous data will also be uploaded to IEEE data port as required.

Hard copies of consent forms will be stored securely at Principle Investigator's office under lock and key and electronic copies of consent forms will be stored at Principle Investigator's office under password protection for the same period as that of data and destroyed thereafter.

### **Right to Withdraw from Participation**

You can ask for the recorder to be turned off at any time without giving a reason. You have the right to withdraw from participation at any time up to 30 days after the interview without giving a reason. And you are offered the opportunity to edit the transcript for 30 days from the receipt of transcript.

### **Anonymity and Confidentiality**

Your personal data (e.g.: gender, occupation) shall only be accessible by the researchers. The researchers will keep your identity confidential and will make the responses anonymous. Interviews will be audio recorded and transcribed by either the researchers or another transcriber (or both). In case of a third-party transcriber, the person will have signed an appropriate confidentiality agreement. Observations may include digital photographs of workplace and any other artefact as the participant agrees to share. Reproduction of these photos or artefacts in publications/reports etc. will avoid identification of you or your company. The audio recordings will be stripped off any personal information before being sent to the transcriber. Any papers published as a result of the study will not identify you, your company or any non-participant in your company. As a general practice of ethics approval, we will need the written consent of the participant to be participated. A consent form to the same effect is attached herewith.

## **Contact Details and Approval Wording**

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For any queries regarding ethical concerns you may contact the Chair, Monash University Human Research Ethics Committee, Room 116, Level 1, Chancellery Building D , 26 Sports Walk, Clayton Campus, Wellington Rd, Clayton VIC 3800, Australia, Email: [muhrec@monash.edu](mailto:muhrec@monash.edu)

Approved by the Monash University Human Research Ethics Committee on 27<sup>th</sup> May, 2020 for five years. Reference Number: 23578.