



DEVELOPER CENTRED PRIVACY: ANALYSIS OF DEVELOPERS STRUGGLES WITH IMPLEMENTING PRIVACY FEATURES INTO SOFTWARE SYSTEMS

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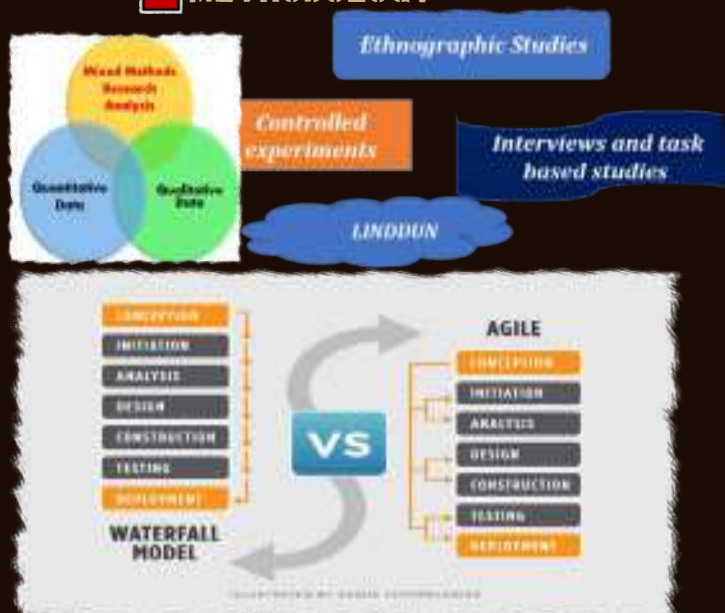
1 INTRODUCTION

Bottom up approach to incorporating privacy into software design utilising prescribed standards. Although, regulatory directives are explicit within legislative provisions outlined in GDPR/CCPA concerning privacy, the issue remains as to whether or not this translates to clear understanding for the average software developer.

2 MOTIVATION

- > Requirement for a comprehensive framework.
- > Need for standardized evaluation metrics or means of privacy calibration.
- > Unexplored complexities that constrain the incorporation of privacy artifact into software design.

3 METHODOLOGY



4 RESEARCH QUESTIONS

- > What are the complexities faced by developers in incorporating privacy artifact into software design?
- > What is needed to design an effective and widely applicable framework that analyzes software developers struggles with regards to privacy?
- > How might the usability, effectiveness and limitations of the derived framework be evaluated with regards to developer centered privacy?

5 PRELIMINARY STUDIES

Initial Study



Systematic task based study with think aloud protocols

Subsequent Studies



6 RESEARCH OBJECTIVES

- > Understanding developers struggles in incorporating privacy artifact into software design.
- > Developing a comprehensive framework for developer centred privacy.
- > Evaluating the derived framework.

7 CHALLENGES



8 CONCLUSION AND FUTURE WORK



REFERENCES

- [1] Cavoukain., A., 2009. Privacy by Design: The 7 Foundational Principles . Information and privacy Commissioner of Ontario, Canada.
- [2] Tahaei et al (2021), Privacy Champions in Software Teams: Understanding Their Motivation, Strategies and Challenges