MONASH University

MONASH INFORMATION TECHNOLOGY

HUMANISE

IMPROVING HUMAN-CENTRIC SOFTWARE DEFECT EVALUATION, REPORTING AND FIXING

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At a glance

Goal

Improve the reporting and resolution of Human-centric Defects (HCDs) in software, such as lack of accessibility features.

Strategies

- Survey and interview studies with software engineering (SE) practitioners.
- Analyse open-source repositories such as GitHub.
- Review current industry practices.
- Create prototypes and suggested taxonomy for SE researchers and practitioners.

Key outcomes

Overview of current perceptions

Assess how HCDs are currently perceived by developers and reporters during development, testing and maintenance of the Software Development Lifecycle (SDLC).

Improvements

Identify improvements needed in reporting, managing and fixing HCDs.

Prototype

Create a novel prototype that will improve the reporting of human-centric defects.

Methods and tools

We assessed current defect reporting tools such as GitHub, Jira, and BugZilla in terms of challenges and improvements needed to better support HCDs.

The taxonomy we identified by interviewing SE practitioners will improve reporting of HCDs in defect reporting tools by providing recommendations and direction.

The prototype to be developed will drive more effective defect reporting and the efficient handling of HCDs.

We are defining future research directions for practitioners and researchers such as improved tools and reporting structure.

Learn more

To discover more or to collaborate on this project contact Vedant Chauhan or scan the QR code.

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