

Master Thesis

Improvement of Traceability Concept between Software Design and Source Code at VW Infotainment

South Westphalia Software Engineering Lab (SW²E Lab)

Fachhochschule 

Motivation:

Volkswagen Infotainment is developing the platform for digital and IoT services within the Volkswagen group. Thereby several ECUs as well as variants for different brands with their cars need to be considered.

Volkswagen Infotainment is interested in improving the traceability between their system design and on the other hand the source code. Thereby questions e. g. on feature coverage and consistency come into place. In this thesis a approach for tool based traceability should be developed.

This leads to the following tasks for this thesis:

Tasks:

- Analysis of current drawbacks of the traceability from system design to source code
- Development of a concept for improvement of traceability with regards to defined Key Performance Indicators.
 - Prototype for the Traceability on model and code level
 - Integration into JIRA

Requirements:

- Master Thesis for students of Digital Technologies or Systems Engineering & Engineering Management
- Knowledge on embedded Software Development (with C++ and/or Rust) is beneficial
- Knowledge on JIRA is beneficial

Department of Electrical Engineering
Prof. Dr. Andreas Wübbeke
Phone: +49 (0)2921/378-3578
E-Mail: wuebbeke.andreas@fh-swf.de
Lübecker Ring 2
59494 Soest

Partner:

VOLKSWAGEN
INFOTAINMENT

Wir geben Impulse



2024-03-01