

Thesis Proposal - Abstract

Title: Integration of Multiple Static Analysis Tools in a Single Interface

Static analysis plays a major role in software development to find bugs and any vulnerabilities in code. There are different analysis tools available in the market. However, it is found out in different surveys about why the tools are not as efficient as expected by software developers. In recent research, it is found out that in a typical software development organisation, they use multiple tools including legacy tools used in nightly builds as an example. This Thesis aims to address the scenario where a developer works with different tools and how adaptive could be the user interface. The novel ideas including approaches adapted from different software engineering disciplines are evaluated through usability design cycle. The usability aspect of the proposed ideas is considered during the evaluation phase. The target users for this evaluation are experienced software developers which ensures the applicability of this Thesis work.

Keywords: Static Analysis, Usability, Wireframe, User Experience Design