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HSTCP: A Tool for Hierarchical System Test Case Prioritization

Harish Kumar*, Vedpal**, Naresh Chauhan***

Abstract

Many constraints are imposed on the software industries that want to complete the project in time and within budget. It is a challenging task for software industries to complete the project with in time and budget due to advancement of technology. In this paper a hierarchical test case prioritization (HSTCP) (Kumar, 2013) tool is presented which implements hierarchical system test case prioritization technique. The presented tool helps to prioritize the system test case and reduce the testing cost of the software. The HSTCP tool works at three levels. At the first level it prioritizes the requirements, at the second level the modules of highest prioritized requirements are prioritized. Finally at third level it prioritizes the test cases of the modules in prioritized order. The presented HSTCP tool is implemented in Java language.

Keywords: Test Case Prioritization Tool, Testing Tool, Software Testing

Introduction

Test case prioritization technique is used to order the test case in such a way that the highest error prone test case should be executed first and it should detect the error in earlier phase. The literature shows that the up to 50 % cost of total budget allocated is spent on testing of the software. A fault incurs more fixing cost in the later stages as compared to when the bug is fixed in earlier stages. It may be possible that critical bugs are found at the later stage. For fixing the bug at later stage it may need design

to be changed, which results in more testing cost. There are many approaches presented by the researchers i.e. some prioritized the test cases on basis of requirements, some prioritized the test case on basis of propose factors, code coverage, fault severity, and by applying genetic algorithms. It is very challenging and time consuming task to prioritize the test cases manually.

In this paper a HSTP tool for prioritizing the test case is presented. The proposed tool work at three levels as discussed below:

- At the first level the requirements are prioritized.
- At the second level requirements modules are prioritized in order of requirements.
- Finally at the third level the test case of the module in prioritized order are prioritized.

For experimental evaluation and analysis the presented tool has been applied on the case study. The considered case study performs the various operation to calculate the tax like saving, deduction, calculate tax etc. For effectiveness of the proposed tool comparison with the existing tool is performed. The result shows the effectiveness and efficacy of the tool.

Related Work

Mancheta, Sasi, Kesler and Scan niello (2012) proposed a MPTCP for prioritizing the test cases based on sorting genetic algorithm and latent semantic indexing. The presented tool implements the multi-based test case prioritization techniques. The tool prioritizes the test cases on the basis of the code and requirements. It also considers the execution cost of the test cases.

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