



RESEARCH ARTICLE

A New Technique for Test Case Prioritization

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Abstract— Software testing is important phase of software development life cycle which ensure the developer that the developed software work according to specifications or not. To make testing efficient and effective a techniques of test case prioritization are used. A well-organized Test case prioritization technique reduces the cost of testing and fault detection capabilities of testing. We will go to purpose a new technique which reduces the cost of testing by using new approach for test case prioritization .This approach use clustering technique to prioritize the test case in appropriate order which improve the effectiveness of testing and reduce the cost and efforts required for testing. This approach groups the test case with same characteristics within same cluster. This approach also improves the fault detection capability of test case prioritization based on cost effectiveness parameter of test cases and function coverage ability of test case. Our approach of test case prioritization use function coverage parameter which allows tester to prioritize the test case based on their actual function coverage ability without considering number of lines covered by test case which may contain extra comment line.

Keywords: - Case Based Ranking; Prioritization of requirement for test; Dependency Structure Prioritization

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