



STUDY AND ANALYSIS OF TESTING TECHNIQUES

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Abstract- Software testing provides a mean of reduce errors, cut maintenance and overall software costs. Numerous software development and testing methodologies, tools, and techniques have emerged over the last few decades promising to enhance software quality. While it can be argued that there has been some

improvement it is apparent that many of the techniques and tools are isolated to a specific lifecycle phase or functional area. One of the major problems within software testing area is how to get a suitable set of cases to test a software system. This set should assure maximum effectiveness with the least possible number of test cases. There are now numerous testing techniques available for generating test cases. In this paper, the three most prevalent and commonly used software testing techniques for detecting errors are described and compared, they are: white box testing, black box testing and hybrid testing.



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Keywords- Software testing, level of testing, testing techniques, testing process.

I. INTRODUCTION

Testing is the process of executing the program with the intend of finding faults. It is different from debugging. Testing is executing a system in order to identify any gaps, errors, or missing requirements in contrary to the actual requirements. It is an expensive and challenging activity. The purpose of testing can be quality assurance, verification and validation. Testing can be used as generic metric as well. An important point to always keep in mind is that what makes a test a “good” one does not have a unique answer, but it changes depending on the context, on the specific application, and on the goal for testing. Software testing is an important phase of software development cycle. It is the process of finding the errors while executing a program. Software testing is a process of verifying and validating that a software application or program works as per the user expectations. It is used to find the important defects, flaws or errors in the application code that must be fixed.

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