Software Testing Ensures the Software Meets the Requirement of the Client

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Software development outsourcing is one of the prime competencies of all Indian IT service providers companies and there has been as exponential growth in software development companies in India over the years. In software development company software testing is one of the prime phases in overall development process as it ensures that all the requirements are validated and verified to deliver the quality software. Software testing aims at finding the anomalies in software which are not the part of requirement document. These are called bugs and software testing is done to make bug free software. In Software development lifecycle software testing is done just after development or coding part is over. Functional requirements are the basic functionalities that software must perform and non-functional requirements are the performance related need of the software like User friendliness, performance, maintenance, recoverability etc. All the testing requirements are formulated in test plan which is then executed as per the test cases specified in the test plan. Testing life cycle at times run along the development lifecycle.

There are several software quality assurance methods and frameworks which enable Software testing India companies to deliver quality software. CMMI is one of such standard with ensures mature processes are in place to deliver a software. Software Quality Assurance helps software testing companies in India to have a robust and standard process to deliver the software. Software Quality assurance and Control act as verification and validation measures when a software is developed.

Software testing may be done from smallest possible testable unit called as Unit and associated testing is called unit testing, a unit can be a text filed on a screen or a radio button or a check box. Test cases are written for all unit and the same are executed. Next level of testing is called as module testing in which a particular module contributing to overall software is tested. For example in retail software bill payment module can be considered as standard module. All input/outputs are tested to see if the is any discrepancy. Next level of Software testing is Integration testing wherein all the modules are collectively tested and this include running sample cases in which output of one module acts as input to other module. Finally System testing is done in order to check end to end features of the complete system. After all the test cases are run identified deviations or bugs are identified and rectified. Post rectification regression testing is done to ensure all the bugs are removed. Regression testing is mostly done through automated means.

After all the test cases are executed user acceptance is taken and this is called user acceptance testing. User acceptance can be either taken at testing companyâ€™s environment in a controlled environment, this is called alpha testing. Another form of user acceptance testing is called as beta testing in which software is released with limited features and client feedback is gathered for final release. Software testing can be done either manually or through automated tools like load runner, QTP etc. Automated testing helps in saving time and ensures reliability and accuracy of executed test cases. One more advantage is companied get and unbiased third party view which ensure the delivery of high quality software truly exceeding the expectations.

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Adam George is a well known writer. He has written many articles on various topics including outsourcing, Presently writing on Software services, a Offshore Software Development , a Software Testing and other Software testing services.

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