Importance of Quality Assurance in Software development

The Quality Assurance (QA) role is the role responsible for ensuring a level of quality for the end client or customer, and to help the software development team to identify problems in very early time in the process. Usually people in this role are known as "testers" since they test every thing from the beginning to the end. But the role is more than just testing. It's about contributing to the quality of the final product.

Good quality assurance should encompass the whole development process from the early start of requirements collecting all the way to the maintenance process. Not only does this involve a range of different type of test techniques but it should also pay attention to the standards, processes, documentation and sign-off gates which are used throughout the entire process of development life-cycle.

Software Quality Assurance nowadays has become a pivotal process as a failure or erroneous operation of mission-critical software might result in serious consequences like substantial financial loss and missed targets. With the rapid advancement of technology apps and stringent regulatory requirements it has become a strong challenging need for high quality and that may occur through verification and validation of the application software.

So, we need Software Quality Assurance (SQA) for many purposes such as to improve customer satisfaction, to reduce cost of development, and to reduce cost of maintenance. In addition, ensuring the performance of a final configuration audit to demonstrate that all deliverable items are ready for delivery.

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