

How can Product Quality solutions enhance your business operations and foster sustained growth?

By implementing rigorous testing methodologies such as functional testing, automation testing, and performance testing, you can detect and resolve issues early in the development cycle. This approach not only reduces costs associated with post-release fixes but also enhances customer satisfaction by delivering robust and reliable solutions.

Ultimately, prioritizing quality enables you to enhance reliability, reduce costs, and accelerate time-to-market, therefore fostering sustained growth and competitiveness in your industry.

Understanding the importance of Product Quality

Product Quality

Product Quality services guarantee the highest standards for your solutions, with precision, reliability, and excellence. Elevate your quality solutions in every stage of the development cycle. Provide confidence, mitigate business risks, improve time to market supported by test automation, and deliver a good application for user experience with the best performance.

FUNCTIONAL TESTING

Ensures software meets specific requirements and enhances the overall quality by detecting defects early, thereby reducing costs.

It helps businesses boost customer satisfaction by verifying all features work as intended, mitigates risks and ensures regulatory compliance.

- Mobile testing and cross-browser
- Regression testing
- Test results and reporting for decision making

AUTOMATION TESTING

Increases testing efficiency and accuracy through automated test execution, reduces human errors and saves time

It helps businesses minimize repetitive manual efforts by allowing test scripts reusability, enhancing test coverage, and providing reliable test results.

- Automated end-to-end and API testing
- Automated regression testing
- Web and mobile automation

PERFORMANCE TESTING

Ensures software applications meet performance criteria such as speed, scalability, and stability under various conditions.

It helps businesses identify bottlenecks, verify the application can handle expected traffic, and detect issues early in the development process.

- Load and stress testing
- Scalability testing
- Capacity testing

BENEFITS

- Enhance customer experience
- Mitigate risks and reduce costs
- Improve time-to-market
- Optimize resource utilization
- Improve reliability and stability

Driving business results through Product Quality

What business outcome are you looking to achieve?

Applications



Enhance quality and reliability

Ensure technology products meet high standards, significantly reducing defects and errors, resulting in fewer post-release issues and lower maintenance costs. This leads to a better user experience, increased customer satisfaction, and competitive advantage in the marketplace.

- Integration testing
- Performance testing
- User acceptance testing
- Test automation
- CI/CD



Reduce costs

Identify and address defects early in the development cycle to minimize expenses associated with fixing issues post-release. This approach prevents costly recalls, streamlines development and testing phases, and optimizes resource allocation.

- Proactive testing
- Capacity planning
- Continuous monitoring
- Code reviews
- Automation tool integration



Improve timeto-market

Ensure products are developed efficiently and effectively with minimal defects, reducing testing cycles, and enabling continuous delivery practices. With automated testing, the speed and efficiency of software releases are improved, thus accelerating time to market.

- Faster feedback loops
- Increased test coverage
- Streamlined regression testing
- CI/CD implementation
- Automation metrics and reporting

Enhancing Quality across industries

From Retail to BFSI, Travel and Hospitality to Manufacturing, industries are undergoing a significant transformation in quality standards and operational excellence. By emphasizing quality across diverse sectors, businesses are redefining traditional practices, ensuring exceptional product and service delivery, and setting new industry benchmarks. This dedication to quality fosters innovation, boosts customer satisfaction, and drives businesses towards long-term success and growth.

Let's explore the diverse applications of these strategies across industries:

Enhance quality and reliability

Product Quality use cases

Reduce costs

Product Quality use cases

Improve time-tomarket

Product Quality use cases



Retail

- App platform
- Point of Sale (POS) system
- In-line quality inspection
- Inventory management system
- Supply chain management
- Quality process automation
- Testing software releases
- Website performance
- Product design quality



BFSI

- Omnichannel consistency
- Customized recommendations

• Website and mobile app testing

• Booking system reliability

• Systems automation testing

- Quality audits
- Automated testing
- Self-service portals
- Quality process automation
- Security automated testing
- App performance
- Product design quality



Travel & Hospitality



- Live broadcast quality
- Video game and simulation

- Automated testing
- Inventory management optimization
- Quality process automation
- Continuous improvements
- App performance
- Mobile app optimization



Sports & Entertainment

- Monitor product quality
- Quality audits

- Automated testing for apps
- Event management system
- Stadium maintenance
- Streaming platforms
- Real-time events updates
- Live events website performance



Manufacturing

- Incoming material inspection
- Defects preventive measures
- Automated systems inspection
- In-process quality control
- Design quality processes
- Accelerated product testing
- Delays reduction



Foundation



Required

Structured evaluation of quality processes and practices based on the Test Maturity Model integration (TMMi) framework.

Quality Journey



Followers



Initial

Undefined testing processes done in an ad hoc way after coding is

completed.

Testing objective is to show that software runs without failures.



Managed

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Managed testing processes established with requirements separated from debugging.

Testing objective is to verify compliance with requirements.



Challengers



Defined

Standardized testing processes fully integrated into the development lifecycle.

Process and procedures are consistent across projects, tailored from the organization's standard processes.



Measured

Defined and measured testing processes with programs that evaluate the process quality. Evaluation process is defined by quality needs, attributes, and metrics. Reviews and inspections are part of the process and used to measure product quality.



Industry leaders



Optimizing

Defined and measured testing processes supported by an organizational structure quality control process area.

Testing methods and techniques are constantly optimized with a focus on process improvement.

Quality Assessment

Quality assessment involves a comprehensive evaluation and analysis of an organization's processes, practices, and products against established quality standards and best practices. Through audits, reviews, and measurements, we identify areas for improvement, inefficiencies, and potential risks, aiming to enhance product reliability, customer satisfaction, and operational efficiency.

How can we help?

- Process understanding
- Requirement validation
- Testing needs identification
- Testing strategy high-level plan
- Testing tools identification

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Functional Testing

Functional testing examines the whole functionality of the software and verifies that each function of the application operates in conformance with the required specifications.

- 1. Case design and development
- 2. Execution and validation
- 3. Regression testing

How can we help?

- Mobile testing
- API testing
- Integration testing
- Smoke testing
- Test-driven development (TDD)
- Behavioral-driven development (BDD)



Automation Testing

Leverage advanced tools and scripts to swiftly and consistently verify software functionality. This approach enhances efficiency, detects defects early, and ensures high-quality, reliable outcomes for your projects.

- 1. Automation planning and design
- 2. Script development and execution
- 3. Maintenance and reporting

How can we help?

- Testing integration with CI/CD
- Automated API testing
- Automated UI testing
- Automated end-to-end testing



Performance Testing

Performance testing involves a comprehensive process to rigorously evaluate software's speed, response time, stability, reliability, scalability, and resource usage across various workloads.

- 1. Testing planning and design
- 2. Test execution
- 3. Analysis and reporting

How can we help?

- Optimized resource utilization
- Reliability testing
- Stability testing
- User experience enhancement
- Predicting and planning
- Tuning and fixing

Our Product Quality domain experts

Quality Architect

Designs and implements strategies to ensure the quality of software products. This involves creating and overseeing testing processes, quality assurance measures, and ensuring the software meets predefined standards. Collaborates with the development and operations teams to embed quality practices across all stages of development.

Performance Engineer

Ensures that the software applications meet performance benchmarks such as speed, scalability, and stability. This involves designing and conducting performance tests and endurance testing to identify and address bottlenecks. Collaborates with development, quality, and operations teams to establish performance criteria and analyze system behavior.

Automation Engineer

Designs, develops, and maintains automated testing solutions for software applications. This involves the creation of automated tests, functionality, performance, and reliability of software applications. Collaborates with development and quality teams to identify test requirements and ensure a seamless execution of tests throughout the development lifecycle.

Quality Engineer

Evaluates and ensures the quality of software applications. This involves the design, development, and execution of functional tests to validate each feature and functionality of the software. Collaborates with product managers, developers, and quality teams to understand requirements, identify test scenarios, and ensure comprehensive test coverage.

Quality Journey