



Testing is a good business strategy. Software applications penetrate all aspects of human life, not to mention mission critical business. Software Testing provides an objective, independent view of the software to allow the business to appreciate and understand the risks at implementation / deployment of the software

Testing Earlier Is Testing Better

Defects are normally introduced early in the lifecycle but often detected only during later phases, after the cost to fix them has increased exponentially. Clearly, substantial savings lie in detecting defects early in the lifecycle. Cuelogic's testing philosophy is to plan for testing from project initiation. Test early and test throughout the SDLC.

Testing is a specialized functional discipline that needs people with appropriate experience, specialization skills and tools. A strong knowledge management framework helps in applying learning, increasing productivity, consistency, and repeatability.

Cuelogic's Testing solution uses a combination of skilled software engineering teams, proven testing tools, and unique methodologies to rapidly deploy a full spectrum of testing solutions in a variety of situations. This includes functional testing, Automation and performance testing.

Cuelogic Testing Services – Delivery Model

Cuelogic tackles a client's testing project using a phased approach, beginning with the testing strategy, test planning and design, and test execution. Another key component of the Cuelogic approach is the delivery flexibility of a testing solution.

Engagement models like staff augmentation, partial ownership or full ownership combined with operating models like full onsite full offshore, onsite-offshore or center of excellence provides the client with a unique delivery model that caters to the testing requirements at the client's place.

Depending on the client's need for speed and cost management, we can execute testing strategies to their desired delivery comfort level.

Why Outsource Testing?

- **Increased testing coverage and quality of product:** Cuelogic's experienced testers follow effective and efficient processes to maximize test coverage and product quality.
- **Client personnel can concentrate on core areas:** Outsourced testing frees up client resources to focus on their key business areas while making testing more effective.
- **Faster time-to-market:** Time-to-market is the key to business success. Cuelogic's unique testing methodology allows quicker cycle times and intelligent automation to facilitate delivery of a quality product in the face of aggressive schedules and deadlines.
- **Staffing flexibility:** Cuelogic's experienced skill base facilitates flexible ramp up and down patterns for any outsourced testing engagement.
- **Predictable cost:** Cuelogic's strong methodology and flexible staffing models onsite and offshore provides better predictability and cost control.

Cuelogic testing spectrum include:

Consultancy Services - To evaluate and diagnose existing or required testing practices. The objective is to assess and analyze gaps to recommend and implement a custom testing solution covering the full range of testing types and automation tools.

Custom Testing Services - For Organizations that know what they need and require only a competent partner to execute testing, Cuelogic is the perfect Choice.

Cuelogic testing spectrum includes - Application Lifecycle- Architecture benchmarking, functional validation, end to end business process testing and other functional and performance testing to validate the application functionality and to create benchmarking metrics. The objective is to make sure that the application is functionally stable.

RANGE of TESTING TYPES

Cuelogic provides several key software testing types, leveraging proven software testing tools—such as those from HP-Mercury™, Rational®, Compuware®, and Segue™ and open source tools such as Selenium and OpenSTA—for speed, quality, and repeatability.

Testing Type	Objective
Functional	Confirms that system meets intended requirements
Integration	Unearths defects associated with application module interfaces
System	Confirms that the product meets all the client's functional and non-functional requirements per system specification
Regression	Ensures that changes to design or code have not generated any new defects or broken any existing functionality
Usability	Verifies whether end users can use the application with minimum stress and maximum efficiency
Load	Tests the scalability of an application by gradually increasing the number of users, transactions, database size, etc.
Performance	Verifies end-to-end time taken for critical business processes and transactions
Stress	Probes the behavior of the application under very heavy load (close to breaking point), to discover the product's capacity limits or to identify limits imposed by the product design or its environment
Business Process Validation	Validate the functionality of the application from a end user and business perspective
Security	Checks that access control and protection mechanisms are built properly into a system
Compatibility	Determines if a product will function correctly with other hardware and software in the intended environment
User Acceptance	Determines whether or not a system satisfies its acceptance criteria (business and end-user requirements) and enables the customer to determine whether or not to accept the system

Testing Market Growth

The market for software testing services is critical and set to grow rapidly. According to the National Institute of Standards and Technology (NIST), U.S. corporations spend \$60 billion to repair software

defects, primarily after release of an application, when it is more costly to do so. Proper software testing in a dedicated environment with strong processes could have reduced this amount by \$20 billion, the Institute data claims. Research from Gartner forecasts the testing services market to grow to \$18 billion by the year 2012.

Testing Methodology

Cuelogic has developed an adaptable testing methodology with a lifecycle model consisting of distinct phases. Each phase has well defined inputs and outputs. A test activity is planned for every development activity that produces a work product. The purpose of the test activity is to determine whether the objectives of a development activity have been met and the deliverable meets the requirements.

Advantages of this methodology:

- Testing is carried out in parallel to the development at all phases.
- Closer coordination can exist between development and testing teams.
- Testing is done in phases with well defined tasks and deliverables.
- Early detection of defects at each stage helps to minimize costs.

The Cuelogic Advantage

Cuelogic has developed, maintained and tested thousands of complex software applications for the last 3-4 years. Cuelogic's Testing solution is an outgrowth of our direct experience in delivering certified, high-quality, high performing software applications that help our clients run their businesses more efficiently.

Cuelogic advantages include:

- Strong testing methodology
- A rich range of offerings that can be tailored to the organization's need
- Substantial proven experience in testing projects for Client's across various domains
- Domain experience
- A strong training and competency development program for its employees
- Effective knowledge management to increase productivity and scalability of teams
- Global Development Centers in the U.S. and India, networked via secure ISDN technology, providing speed-to-market benefits through the use of a virtual "around the clock" work cycle, as well as significant cost management.