

Kumaran Software Testing Services



Kumaran offers a comprehensive range of Software Testing Services designed to ensure high-quality software. Kumaran Software Testing Services team, with its huge software product development experience, ensures that your software/web solution works as expected on the wide range of components and systems available in the homes and offices of your end users. Our standardized software testing services assures you that different operating systems, types and versions of browsers and odd hardware components don't end up ruining what you have worked so hard to produce.

- *Software Validation and Verification*
- *Test Automation*
- *Performance Engineering*

▪ **Software Validation and Verification Services**

KSTS provides clients with the highest level of flexibility. KSTS takes a full-service approach to satisfy your testing needs. KSTS tailors the testing approach to suit the needs of your projects:



Approach

KSTS Software Validation approach is based on its testing methodology, which defines a pragmatic approach to planning and managing software testing. By identifying and documenting clear test strategies, risks and contingencies, resource requirements and scheduling needs. Our consultants are able to deliver consistent result for our customer's testing needs. KSTS functional testing services are geared towards verifying that a product/application conforms to all functional specifications. Our functional testing services are specifically tailored and designed to suit our customers' needs. We offer an entire range of functional testing services that includes:

- **Regression testing**
- **System testing**
- **Boundary value testing**
- **Security Testing**
- **Integration testing**
- **Installation testing**
- **Adhoc or exploratory testing**

Benefits:

- ✓ **Objective third party validation**
- ✓ **CMM Level 4 processes ensure quality and on-time release**
- ✓ **Full test coverage**
- ✓ **Ensure Test Completeness**
- ✓ **Comprehensive Test Results**

▪ **Test Automation Services**

Kumaran Software Testing Services sets a clear business goals for automation and work towards creating a detailed automation strategy and plan accordingly. KSTS identifies the areas that can be automated and plan your automation effort considering the ROI on this process. As a solution provider we would select the right tool required for your application, establish automation architecture and build infrastructure, create scripts that are reusable, robust, and maintainable which are data driven, and integrate testing life cycle into Software Methodology. We have specialized in an automation architecture, which gives a free hand tool for the end user to decide the business scenarios that need to be tested and their order of execution.

Benefits:

- ✓ **Increase Software Reliability**
- ✓ **Reduced test cycle time**
- ✓ **Reduce errors made by repetitive testing**
- ✓ **Regression testing made easy**
- ✓ **Reduction in manual effort and human errors**
- ✓ **Accurate test results**

▪ **Performance Engineering Services**

Kumaran approach towards performance testing is not limited to merely stressing the application. We follow a more comprehensive, end-to-end approach that is targeted at bottleneck identification and performance fine-tuning. We are therefore able to detect bottlenecks right down to the code level and significantly improve an application's scalability often without any hardware upgrades. We first identify various parameters that govern the execution of a test run. The test entry and exit criteria are identified and documented. Preliminary test runs are conducted to tune the performance parameters of the various servers (application server, database server and web server) in the architecture.

- **Load testing**
- **Performance tuning and recommendations**
- **Capacity planning**
- **Stress testing**
- **Integrity testing**
- **Architectural benchmarking**

Benefits:

- ✓ **Reduce application response time without incurring additional hardware costs**
- ✓ **Improves customer satisfaction due to prompt response of your organization's application**
- ✓ **Fix bottlenecks before costly problems occur in production**
- ✓ **Benchmark your applications**
- ✓ **Get recommendations on the architecture to ensure optimum performance**

KSTS offers an entire range of software testing services that assures banks, financial institutions and Insurance service provider's higher levels of quality, control and independent validation of their mission critical applications. We have skills, processes, tools and techniques required for systematic testing for testing following areas in BFSI Sector's: *Electronic Payment Systems, Loans, Credit Cards, Internet Banking, Financial Messaging Systems, Billing, Mutual Funds, Investment Services and Insurance Management.*

Security Policy:

At Kumaran, we understand the importance of IP and secrecy of our customer's confidential information mainly for BFSI applications. As a practice, we sign an NDA with all our employees. Our security policy is aimed at maintaining greater levels of physical and information security. Our dedicated test lab forms a separate network and is shielded from the Internet to protect from viruses. Our security policy includes:

- > Physical Security
- > Data Access Security
- > Network Security

Over the years, KSTS has successfully provided state-of-art application testing services for various customers across domains, some of the clients include:

- **NIH (Health Care)**
- **Alpha Gary (Government)**
- **Brick (Retail)**
- **OCAS (Education)**
- **Home Hardware (Retail)**
- **AAL (Education)**
- **CIBC (BFSI)**
- **Winners (Retail)**
- **CMS(Financial)**