

inQA.labs



Quality, The Importance of Being a Cut Above the Rest

E-Testing

Faster, Better, More Complex

Today, the development and implementation of an Internet solution takes place in an ever-decreasing time span. This inevitably raises the fundamental problem of how to deal with a mixture of complex technology that has appeared fairly recently and which is in a constant state of flux. This applies to all aspects of the solution, from browser presentation standards to middleware components to databases. Moreover, the current scarcity of experts at all stages of the production process greatly increases the likelihood of failure. This is why new web sites appear just about every day that have not been adequately tested or that have not been designed for the workload they have to cope with.

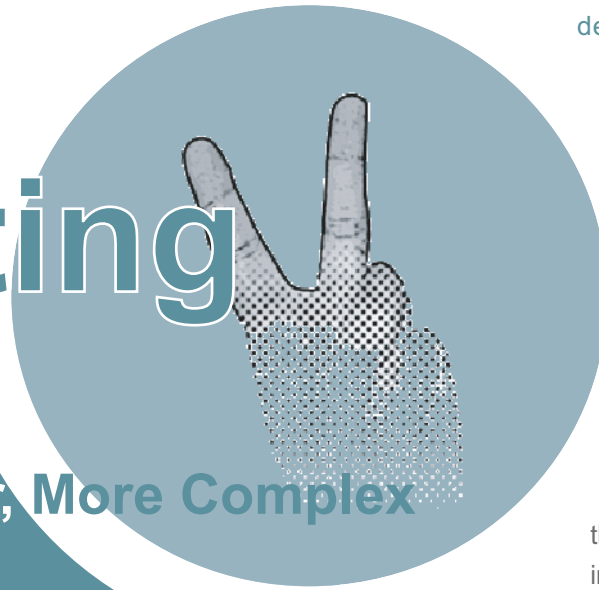
Here's some good news: on the Internet your business is much more visible. Millions of potential customers are just a click away from finding out about your products - just a click away from generating income for you.

The bad news is that your business is also just a click away from disaster! Web pages that can't be downloaded, lack of compatibility with clients' browsers, transactions that don't go through, server computers that are overwhelmed, holes in security systems and... need we go on? All this and more can do irreparable damage to your business and its image. The Internet has generated a new breed

of customer, one who is more demanding when it comes to functionality and ease of use, and one who is less tolerant when it comes to quality and service. And, of course, a dissatisfied customer is always just a click away from your competitors...

inQA.labs is Spain's leading independent software test laboratory. We can help guarantee the success of your e-business. inQA.labs' test and quality assurance professionals bring you the best when it comes to testing your e-business's functionality, capacity and reliability. To do this we use structured test methodologies and automation and simulation tools. Thanks to them you keep a tight hold on the inevitably chaotic site development process and the potential pitfalls of implementation. With inQA.labs you get a clear picture of what your system can really achieve.

Test Professionals



Functionality

The first test that any software application must pass is to do what it has been designed to do. In a web environment everything is made more complicated by the fact that application functionality is spread across a number of levels. We call this multi-tier functionality since it is shared amongst the browser or client, the web server, the middleware, the database and, increasingly, the back-office system. inQA.labs' test planning covers a number of typical risk areas.

Interface and Simple Browser Tests

These tests concentrate on the logic implemented in the browsers. Links, geometry, rollovers, resolution, colours, graphics and functions implemented in JavaScript or third-party plug-ins are all examples what these tests are designed to check.

Java or ActiveX Tests

The additional complexity of Java applets or ActiveX components call for specially designed tests. These concentrate on the special functionality of these components and their execution environments (Virtual Java machines, Windows platforms

End-to-End Functional Tests

These are based on actual use cases; they simulate the end-user's experience with your system. They check the whole transaction from browser to database including the middleware (ASP, DCOM, Corba, Javabeans, etc).

Automation tools enable test times to be reduced, whilst simultaneously increasing the combinations of possible scenarios and maximising coverage (paths and data). Metrics, such as transaction times and amount of data transferred per page, help to understand what your end-users will actually experience.

Inter-Browser Compatibility

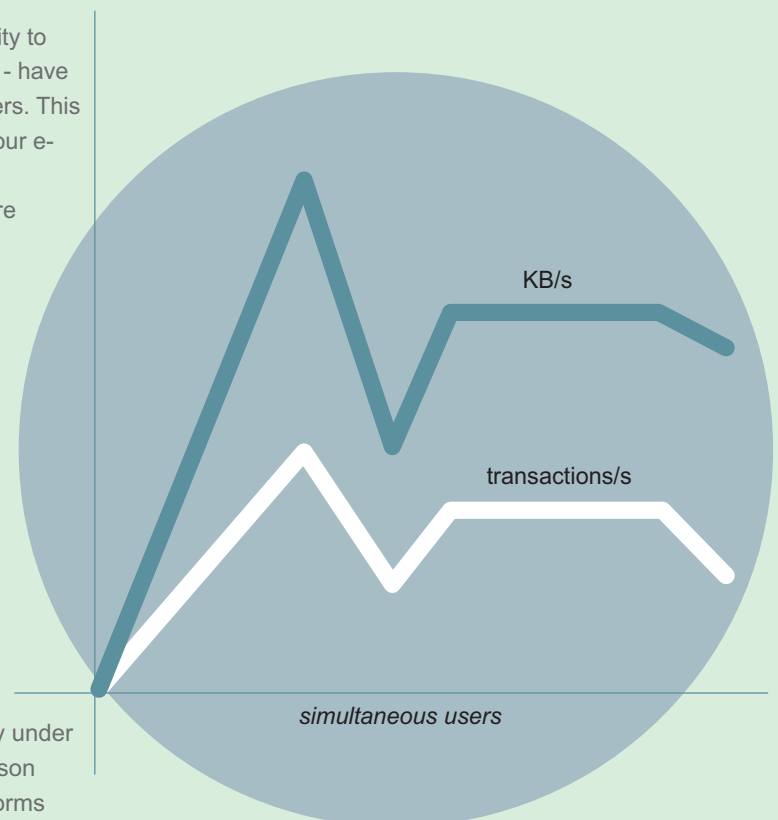
Unfortunately, the efforts that have been made to bring compatibility to the diverse components of Internet systems - from HTML to DOM - have not yet sufficed to guarantee identical behaviour across all browsers. This means that more investment in testing is required. It is vital that your e-business application bring users the same degree of functionality whatever the browser they are using at the very least with the more widespread versions of Netscape and Internet Explorer.

Localisation

If your web site is going to be translated, the corresponding localised versions will also need to be tested. Most translation agencies just check their HTML files with a text editor. inQA.labs does not stop there. We employ native-speaker engineers and translators, highly trained in computer science, to check how your solution works under real end-user conditions, using operating systems and browsers in the target language.

Cross-Platform Compatibility

It is also sadly true that browsers do not behave in the same way under Windows, Mac OS and the various versions of Unix. For this reason inQA.labs are fully equipped to test your solution with most platforms currently available (e.g. Windows, MacOS, Linux, Solaris, HP-UX, AIX, Irix...) and with a full range of releases of these platforms.



Performance

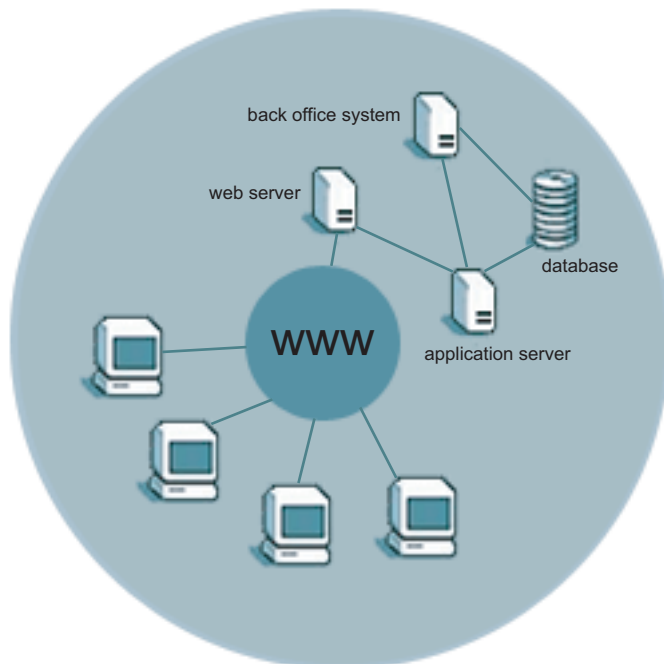
What level of performance does your e-business actually provide? For many IT department managers this is the number-one issue. The marketplace itself is frequently the source of a sudden, unexpected increase in the number of users visiting your web site. Christmas advertising campaigns, special on-line offers from an electronic store, stock exchange ups and downs in the case of a broker, the end of the month for a bank can all boost the number of people logging on. Unfortunately, this means the probability of your system collapsing is then much greater. And this can constitute a serious setback for your business - with credibility, image, client base and revenue all taking a knock.

Scalability Tests

Scalability tests help you to find out just when and how access to your site can suffer from too many visitors. inQA.labs' test professionals create browsing scenarios based on real world usage. Then with the help of tools they simulate up to many thousands of simultaneous transactions. They seek out the critical point where your system could break down and identify bottlenecks so that you can structure it more robustly. They measure the amount of data interchanged, failure rates or total transaction times to bring you an accurate picture of what an end-user will actually experience on your site.

Service Availability Tests

Service availability tests simulate standard traffic, with no overload, over a long period of time. The tests designed by inQA.labs enable you to check how long your system will run at maximum efficiency, and whether or not the system is slowly declining in quality.



inQA.labs is:

- The premier test laboratory in Spain for outsourcing
- A team of test and software quality engineering professionals
- A laboratory featuring all the network, platform and operating system environments on the market
- Structured test methods adapted to your needs

If you want to make sure your e-business really works, contact:

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