

— Success story

**Abstracta's Suite of
Test Automation
Tools Helps GeneXus
Reduce Regression
Testing Time by 50%**

—
GeneXus[™]
Grow thru knowledge

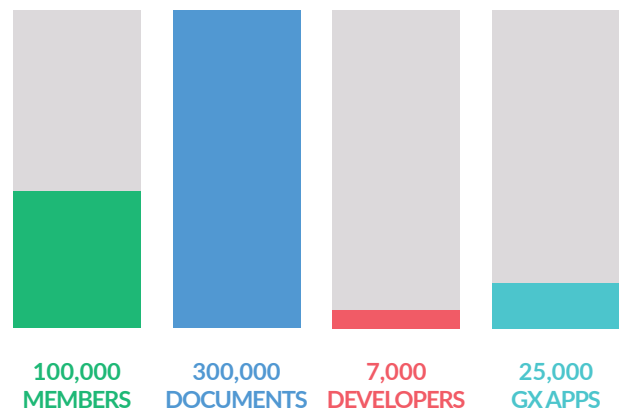
abstracta 
above all, about quality

GeneXus Case Study

GeneXus is one of the largest IT companies in Latin America. Founded in 1988 with its headquarters in Montevideo, GeneXus has offices in the United States, Mexico, Brazil and Japan. It has a presence in more than 45 countries through its network of partners and distributors and has more than 8,500 global clients.

GeneXus is Artech's central product: an agile, cross-platform development tool largely oriented towards enterprise-class web applications, the Microsoft Windows platform and smart devices.

The GeneXus community has more than 100,000 members and encapsulates a marketplace of nearly 300,000 documents from a huge range of contributors. To date, over 7,000 developers have uploaded a total of 25,000 GeneXus applications to the Amazon cloud.

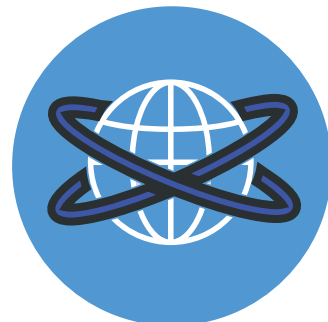


The Problem

Artech needed to release new versions of GeneXus within a short, efficient development cycle with as few user acceptance issues as possible during testing.

Artech needed to speed up the process for the creation and updating of test scripts as well as scale faster and reduce the costs of test maintenance.

Artech wanted to use automated testing as a means of increasing productivity.



Our Solution

Abstracta developed GXtest, a suite of products for functional test automation that enables users without formal programming skills to design, automate, and run functional tests over web and mobile applications developed using Genexus.

GXtest allows full regression, acceptance, integration and system testing.

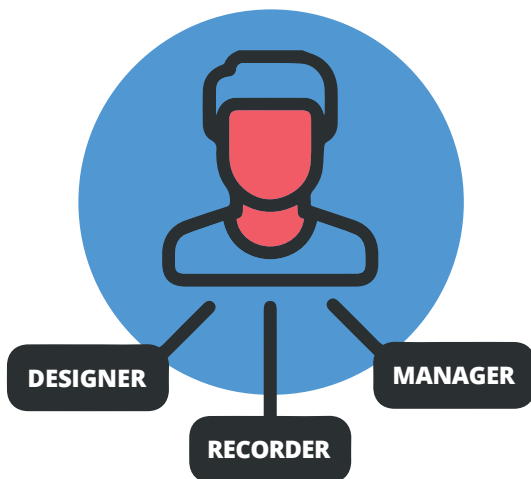


It has three main components: Designer, Recorder and Manager.

The objective of GXtest Designer is to model a test case via a user-friendly and accessible interface with the ability to run it on different platforms and with different versions of GeneXus.

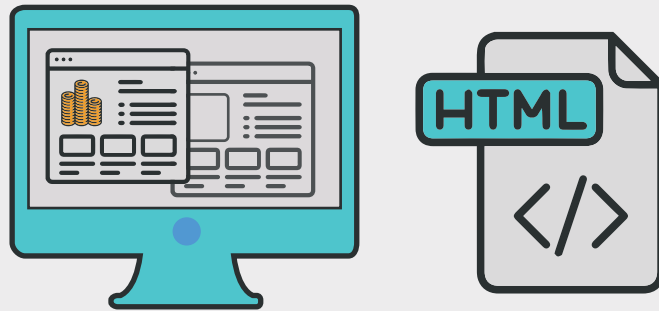
In addition, GXtest Recorder lets you record user actions carried out on your browser in order to create a test case.

Finally, GXtest Manager allows you to group test cases and schedule them for execution. It then enables you to see the results of each execution.



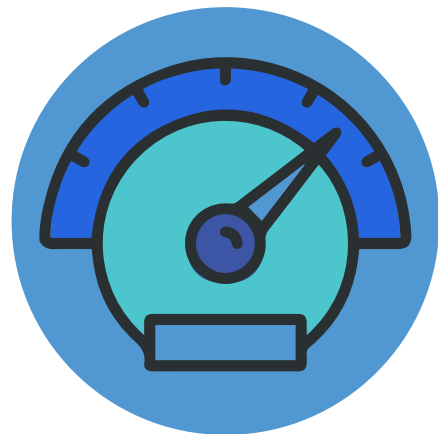
Main benefits

Traditional automation tools use references to elements in the generated code (like html attributes in a web application), meaning that you have to adjust the test scripts manually with every change in the source model.



However, with GXtest, there is no need to adjust script tests manually, as GXtest automatically adjusts all test scripts to the newly generated code, so they continue to function. This also allows you to maintain the traceability of tests.

This is possible because GXtest is designed to use references to the model from which the code was generated, instead of pointing to elements of the generated code.



A+ Results

The tool we developed, GXtest, is the leading automation tool for testing applications developed with Genexus.

One of the main users of GXTest is Artech, with more than 1.5 million test cases executed automatically per month and more than 45,000 test cases have been designed to date.

Using GXtest, Artech was able to reduce the time invested in designing and maintaining regression tests by more than 50% as well as migrate existing tests from one version of GeneXus to the next with minimal effort.

-50%

Reduced the
time invested in
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“Abstracta is a leading company in testing services and products, and is without a doubt, a very special partner of GeneXus. GXTest by Abstracta is a fundamental tool for us and we use it heavily for automation testing during the creation of new versions of GeneXus. With it we execute millions of test cases every month to ensure the quality of our product. This would be humanly impossible to do without GXTest.”

NICOLÁS JODAL, CEO GENEXUS



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