

abstracta 

MOBILE TESTING



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Creating high quality mobile applications that the market is demanding today is a huge challenge. For that, it's necessary to rely on a professional team that knows the technologies, tools, and processes that bring the best results.

MOBILE TESTING AS A PART OF THE BUILD PROCESS

From day one of the build process, it is not only possible, but important to address quality. **Abstracta** helps to install continuous integration servers (such as **Jenkins**) that are responsible for automating the build tasks, deploying and testing the app in different environments and devices.

With continuous integration, it is possible to build new versions more frequently, each time automatically installing and executing tests on different devices, operating systems, screen sizes and hardware so that the team can receive immediate feedback about the app's quality.

ACCEPTANCE TESTING

Testing the different aspects of a mobile application isn't a simple task. **Abstracta** focuses on testing the user experience with our experts in mobile UI, application compatibility on real devices across all brands, models, and versions, and app performance on both the device level and the backend services that support it.

Abstracta plays a very important role when testing an application developed by an external provider or when it's necessary to test an app's quality before handing it over to a client with very high standards.

Abstracta has gained experience from working on **over 100 mobile testing projects** using both proprietary and third party tools to exceed client and user expectations for mobile app quality.

TEST AUTOMATION

The only way to meet the high standards that the market sets is by automating the testing process.

At **Abstracta** we know how to automate in a way so that it is profitable over time, designing and implementing the best automation strategy for each application. We have experience with automation tools at the UI level such as Selenium, Appium, Robotium, UI Automator and Calabash as well as automation tools at the API level like SoapUI, JMeter, Visual Studio, and Rest Assured.

TOOLS

Abstracta is a leader in Latin America in the creation of testing tools.

PROPRIETARY PRODUCTS



If you need to test a mobile app developed with Genexus, **GXtest** allows you to easily automate functional tests and improve the productivity of your testing activities. GXtest's test cases later evolve with your application without testing being a bottleneck when releasing the system to the customer.



Monkop is a first-of-its-kind solution in the area of mobile testing, as highlighted by the Innovative Product Award by ANII (Uruguay's National Agency for Research and Development). **Monkop** provides an easy way to run a mobile app in Abstracta's mobile device cloud in order to test its performance in various configurations. The tool allows you to effortlessly run our monkey (or crawler) on an app to analyze its behavior (startup time, battery usage, CPU, memory, data, threads, rendering time, state of the libraries that it uses, etc.), warning you of any possible errors in any of these indicators. Monkop's R&D team provides a differential service when analyzing mobile app quality.

PARTNER PRODUCTS

Abstracta is a partner of **BlazeMeter**, **Applitools**, **Experitest** and **Applause**.

- **BlazeMeter** is a leading solution for executing back end performance tests from the cloud.
- **Applitools** enables you to add visual validations to your automation (for example: layout, colors, etc) allowing you to maximize the number of bugs found automatically.
- **Experitest** is the leading provider of mobile testing tools for automated testing, manual testing, and for monitoring on iOS, Android and Windows.
- **Applause** is a crowd testing platform that allows for rapid scaling-up of your test team to give better solutions to large companies.

TESTS ON REAL DEVICES

At **Abstracta**, we have our own in-house open device lab (www.opendevicelab.com) that minimizes the access times to a diverse selection of devices. At the same time, we have a team of professionals that continuously research and test out the benefits of the main tools on the market. This allows us to use them later in projects according to each one's specific needs.

In particular, **Abstracta** uses the following services to access real devices for manual testing as well as automated testing: Amazon Device Farm, Testdroid and DeviceAnywhere from KeyNote.

SUCCESS STORIES

Bancard

PARAGUAY

Bancard is a leading card processor and administrator in Paraguay for various debit and credit card brands and handles the administration of Infonet's automated teller machine (ATM) and POS network; among others.

- Our team allowed Bancard to verify the proper operation and performance of its new, critical systems such as a new CRM, the Infonet Mobile system and technological upgrading of its core business system.
- For these purposes, we planned, designed and executed manual and automated tests. We also implemented performance tests to check server performance on the backend.

BBVA

URUGUAY AND ARGENTINA

A key player in the Uruguayan market, BBVA is a financial institution that belongs to the Banco Bilbao Vizcaya Argentaria Group, a leader in financial services in more than 30 countries with its headquarters in Spain.

- Across all of its branches, **BBVA** is strongly committed to the process of further developing its digital channels; especially mobile to facilitate communication with customers.
- In this context, Abstracta is an indispensable partner for **BBVA**, helping it to face the challenges that come with making systems whose performance meet the needs of the business and its customers.
- Our team helped **BBVA** to select, install, and configure APM (application performance monitoring) tools. We also helped design its mobile application so that it would have adequate performance that could be easily measured with the APM tools. Furthermore, we helped to design and execute performance tests that simulate the behavior of real users, enabling adjustments to all of the principal components.
- As a result of these achievements, we continue to do excellent work for the **BBVA Group** in Latin America.