

— Success story

**Pension Fund
Administrator
Reduces System
Response Times
by 5X**





República AFAP Case Study

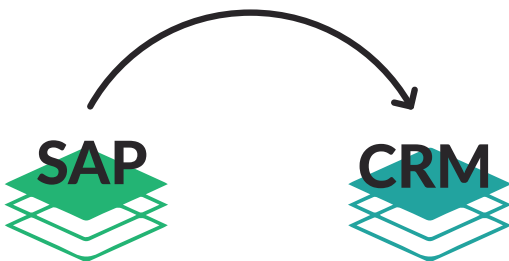
República AFAP is the leading private organization for administering pension savings funds in Uruguay. Workers must be registered with the Social Security Institute and also chose an entity with which to set up a complementary individual savings system. República AFAP is the most trusted provider for this financial service, backed by the government.



The Problem

República AFAP was going through a migration of its CRM platform, from SAP to a custom CRM implemented by the Dvelop Software Solutions team.

The migration was of such a high impact to its business operations that it was essential to ensure that the application would be able to handle the expected load without hassle. Some of the stakeholders were resistant to change so the new platform had no room for complaints.





Our Solution

The project involved three stages.

STAGE 01

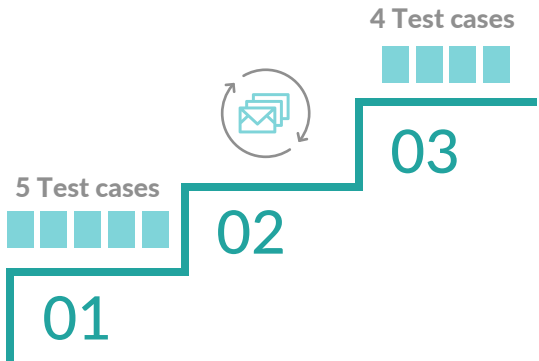
In the first stage, Abstracta's team of performance engineers automated the scripts that covered the main functions which had already been released. The first test execution consisted of five test cases that formed the performance testing scenario. From those executions, the engineers identified several opportunities for enhancing response times, solved locks, and detected that the connection pool was too small, which was causing an error.

STAGE 02

In stage two, the Abstracta team added a new, problematic workflow involving email synchronization to the suite of tests.

STAGE 03

Finally, in stage three, the team added four new test cases to the test scenario and successfully executed them prior to the go-live of the platform. The team also assisted **República AFAP** during its go-live event to make sure that everything ran smoothly.



PERFORMANCE TESTING SCENARIO

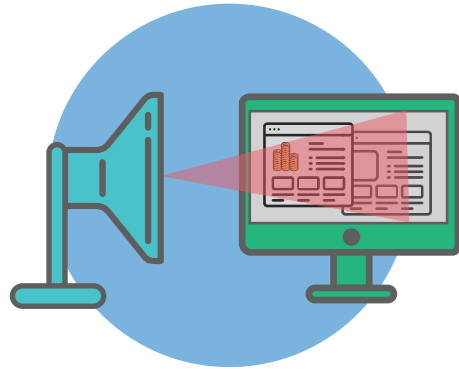




Tools

We used the following tools for test execution and monitoring:

- OpenSTA
- Perfmon
- Zabbix
- Activity Monitor
- Intellitrace
- Dottrace jetbrains



TEST EXECUTION & MONITORING



Results

- Managed to reduce login response times by 5 times.
- Found and solved several critical errors, i.e. the size of the connection pool was too small, causing an error in the application under load.
- Detected the causes of bottlenecks at the database level.
- Immediately solved the problems that were detected after the go-live before they could reach end users.
- **República AFAP** was able to gain a clear understanding of the application's behavior under a concurrency of users.

“It was a very positive experience, hiring Abstracta and this kind of service for the first time, in order to implement a new system and we greatly benefited from it.”

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