

API update and mobile app creation for Banesco

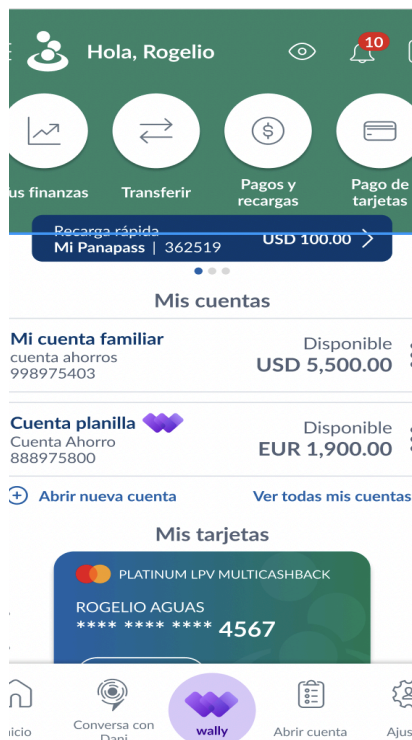
For Banesco, Rootstack worked on a modern mobile app and updates of APIs.

About Banesco

Banesco is a Venezuelan bank created in 1991, with operations in the banking, insurance, and payment sectors. It has a presence in the USA, Mexico, Panama, Brazil, Spain, Portugal, Germany, France, Switzerland, Great Britain, and Venezuela, and has expanded through mergers and acquisitions.



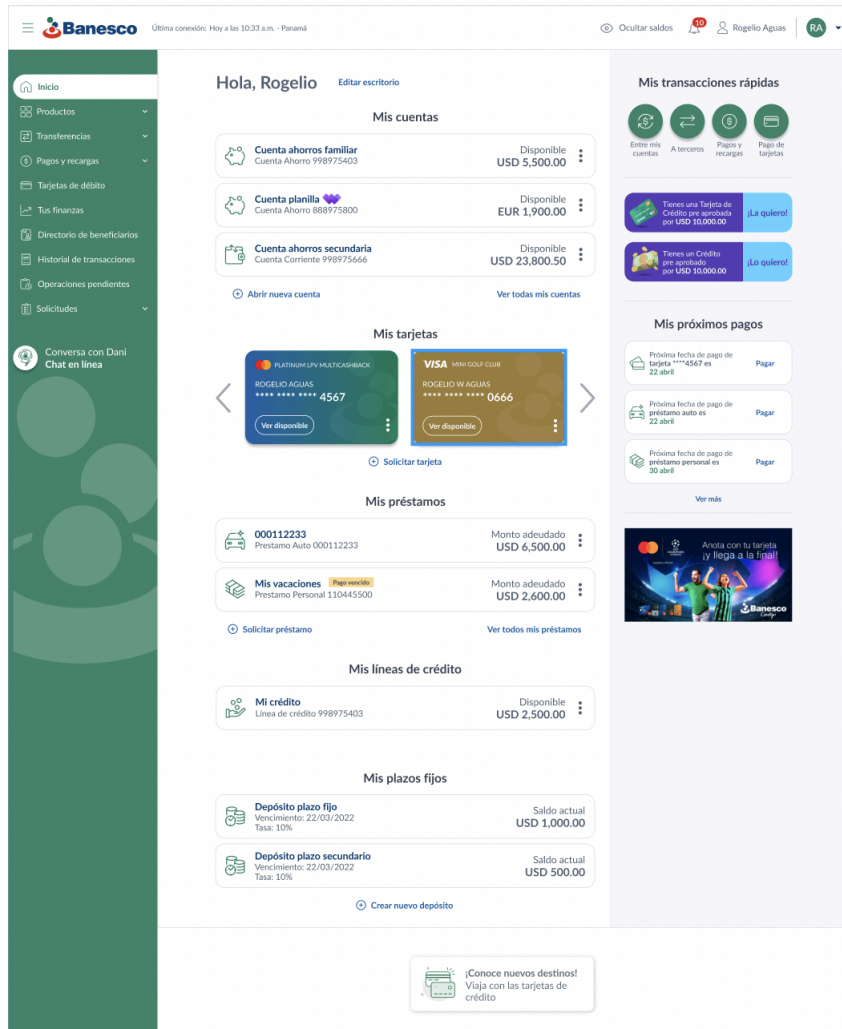
Rootstack's Solution



In early 2024, Rootstack initiated a project to enhance Banesco's digital banking services for individuals and businesses. With no in-house development team, Banesco relied on Rootstack to address API health, automate QA testing, and develop backend solutions. The project focuses on creating a secure and scalable application that improves user authentication, account information access, and overall functionality for digital banking.

The project objectives included ensuring robust API access through improved health services, automating QA tests to validate online banking features, and implementing backend solutions for secure and efficient user experiences. Using an Agile methodology, Rootstack employed advanced tools and technologies such as AWS for scalability, JavaScript for responsive frontend design, and Test Complete, JMeter, and Jenkins for automating testing processes. Monitoring tools like CloudWatch and LookScreen were integrated to maintain API performance.

Technologies were strategically selected to optimize development and ensure reliability. AWS provided a scalable cloud infrastructure, while JavaScript enabled interactive interfaces. Automation tools like Test Complete streamlined QA processes, reducing manual effort and improving test coverage. Monitoring tools supported proactive issue resolution. Together, these technologies significantly enhanced application reliability, user experience, and operational efficiency.



Key challenges included improving API health, particularly login services requiring token validation, and automating QA tests for personal and corporate banking. Despite these hurdles, the project achieved notable benefits: enhanced user access and security, efficient testing processes, and improved access to account information. These advancements positioned Banesco as a leader in digital banking, offering seamless and secure services for its clients.

Technologies

The project used **AWS** for scalability, **JavaScript** for user-friendly interfaces, and tools like **Test Complete**, **JMeter**, and **Jenkins** to automate QA. **CloudWatch** and **LookScreen** ensured robust monitoring and quick issue resolution, enhancing development and reliability.



Key Features

- Enhanced API Health: Improved user access with token-based login validation.
- Automated QA Testing: Streamlined testing with tools like Test Complete and JMeter.
- Scalable Cloud Infrastructure: Leveraged AWS for reliable and secure deployment.
- Comprehensive Monitoring: Used CloudWatch and LookScreen for robust service tracking.