MAINTAINING BUSINESS EDGE BY MODERNIZING LEASING APPLICATION

Colombian large bank eliminates business risks associated with EOL technology - Oracle Forms

DAVIVIENDA

AT A GLANCE

Industry
Financial Services

Headquarters
Bogotá, Colombia

Challenge
Needed to discontinue legacy and its inefficiencies, and move to micro services, while retaining 100% business parity

Solution
IONATE™ APPDATE offers legacy to micro services conversion using AI / ML

Results
- Cost savings
- Future readiness
- Faster time to market

The third largest bank in Colombia, Davivienda aims to improve its overall enterprise efficiency. To continue staying competitive, the bank needed to prioritize IT transformation in key projects such as their leasing application. Built and powered by over 1600 Oracle Forms, the system posed some serious business risks.

Davivienda approached various companies, but all front-runners such as IBM, TCS, Sonda, etc. could only offer a lift-and-shift strategy. It would take 5 years to convert 1600 Forms and 500 Reports, and they would still not work with the latest version of Oracle on cloud. Ionate was the only company promising true modernization in under 6 months.

According to SCC generated report for a sub-project, it would have taken 31 engineers a period of 36 months to hand-code what IONATE™ APPDATE did in under 6 months.

IONATE™ APPDATE solution has worked out of the box as legacy to micro services conversion for the financial services leader.

Legacy Stack (Source)
Oracle Forms
Oracle Reports

Modern Stack (Target)
Java Sprintboot
REST APIs
AngularJS

CHALLENGE

Quick and future-proof IT transformation to eliminate risks associated with EOL technologies

As one of the largest banks in Colombia, maintaining competitive edge was paramount, especially in the wake of digital-only incumbents entering the Financial arena. To grow in the face of the new age competition, the bank needed to rethink processes and toolsets, and find opportunities to save running legacy costs.

For instance, not having a CI / CD process going forward, would bring down the overall efficiency and quality of their licensing ecosystem.

Other factors hurting the business:
- Maintenance (desktop clients)
- Vulnerability to data breaches and cyber attacks
- Feasibility of cloud (Oracle Forms are impossible to be made to work on cloud)
- Other risks of using legacy technologies EOL (end-of-life), such as talent retention, integration, compliance, etc.

Davivienda's licensing application legacy stack consisted of:
- Oracle Forms 6i
- Oracle Reports 6i
- Oracle DB 11g

The challenge of taking the route of lift-and-shift aside from the huge timeframe, was in lack of integration with cloud. For instance, Oracle DB can be run on cloud but only on the latest version: 19c. Even if the Forms and Reports are converted, they will stop working, as they only work with 11g and lower versions. Another major limitation is the user experience of Oracle Forms.

SOLUTION

Modernizing legacy applications to cloud-native micro services and enabling CI / CD pipeline

Summary of modern components:
- Java Springboot with Spring Data Modernization
- Angular Typescript as modern Frontend MVC
- Test automation and security
- Fully managed CI / CD powered by IONATE™ KUBERNETES enabled with AISecurity and AIOps

SUCCESS METRICS

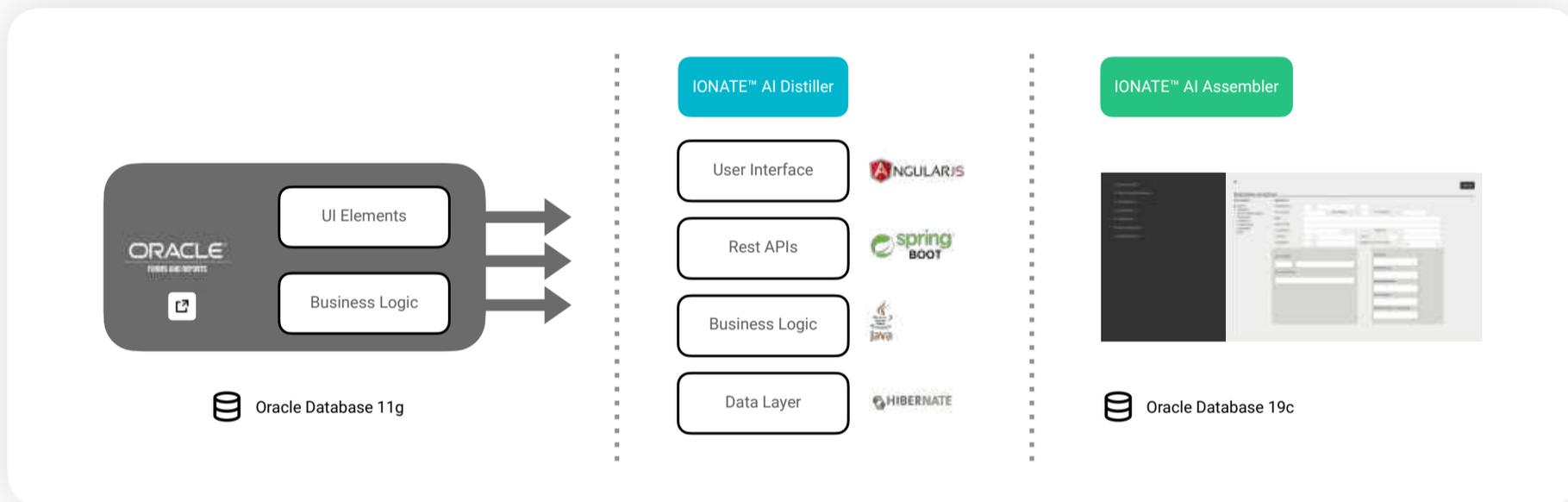Time to Market   Up to 80%

Annual Cost Savings   Up to 60%

THE TRANSFORMATION PROCESS

Legacy to modern stack conversion is orchestrated by Ionate's proprietary technologies

IONATE™ AI Distiller

IONATE™ AI Assembler

ORACLE
FUNDS AND REPORTS

UI Elements

Business Logic

Oracle Database 11g

User Interface — ANGULARJS

Rest APIs — spring BOOT

Business Logic — Java

Data Layer — HIBERNATE

Oracle Database 19c

BENEFITS

Cost savings

Future readiness

Faster time to market

SCC REPORT

What you see is project statistics. It would take **31 engineers, 36 months** to write the same code that IONATE™ APPDATE did in under **6 months**.

About Ionate

Global HQ
San Francisco

sales@ionate.io
www.ionate.io

Ionate accelerates Digital Transformation by modernizing legacy systems using a proprietary AI/ML engine in under 6 months, while maintaining 100% business parity. Our end-to-end platform enables you with a high-performing infrastructure, to scale your business, with security, predictive forecasting, and data protection.