

# Case Study 1: Building an Air Travel Claims SaaS Platform

**Industry:** Travel & Passenger Rights Regulation **Role:** Architect & Development Manager **Client Type:** SaaS company serving air travel carriers and consumers **Duration:** ~6 weeks for MVP, ongoing enhancements

## Background & Challenge

With new air travel passenger rights regulations coming into effect, a client in the travel-tech space needed a system to automate and manage passenger compensation claims. Their prototype was incomplete, lacked integrations, and wasn't compliant with upcoming regulations.







The business opportunity was time-sensitive, and failure to deliver a robust platform before enforcement would have left them behind competitors.

## My Role





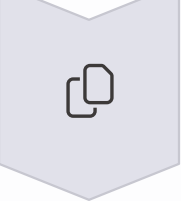
As both **Architect and Development Manager**, I was responsible for translating regulatory requirements and high-level product concepts into a fully functional cloud-native platform. I:

- Designed the end-to-end architecture, spanning frontend, backend, and third-party integrations
- Led a small but focused cross-functional team of 6 engineers (across Europe and Canada)
- Established development workflows, QA strategy, and CI/CD pipelines
- Reviewed and iterated on functional specs, UAT feedback, and integration testing
- Partnered directly with the founder and legal advisors to ensure compliance and scope alignment

## Stack & Execution

 Backend FastAPI (Python), PostgreSQL, REST APIs	 Frontend Oracle APEX for internal admin views
 APIs CorePay for multi-region payouts (Canada, U.S., EU)	 Infrastructure Oracle Cloud Infrastructure (OCI), Docker, GitLab CI
 Security Token-based OAuth2, PII encryption, audit logging	 Data Reporting Internal BI dashboards for claims volume, SLA tracking, resolution cycles

## Outcome

	MVP released in 6 weeks Live in 2 jurisdictions
	Fully automated workflow Claim approval and tracking
	Scalable architecture Ready for onboarding new airlines
	Positioned as compliant Integration-ready with airline and payment providers
	Created reusable process Architecture for similar regulated use cases

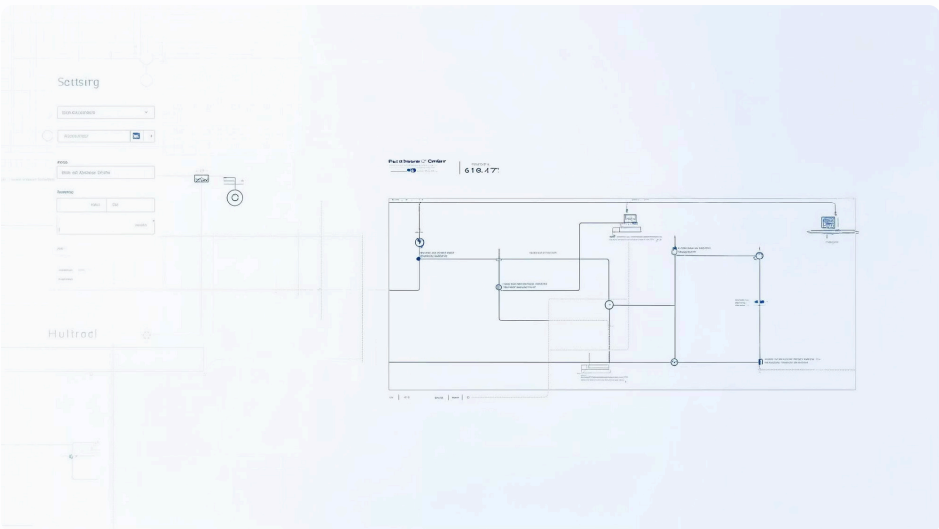
# Case Study 2: Real-Time Procurement API Layer for Global Engineering Firm

**Industry:** Engineering & Construction **Role:** Architect & Development Manager **Client Type:** Enterprise with global engineering projects and legacy Oracle systems **Duration:** 3 months

## Background & Challenge

The client's Oracle-based procurement and inventory systems were deeply siloed, and engineering project teams struggled to access up-to-date PO and materials data. Exporting reports for analysis created manual overhead, version issues, and significant delays.

They needed a **real-time, secure API layer** to expose key data to their project control teams and external systems—without modifying their ERP.

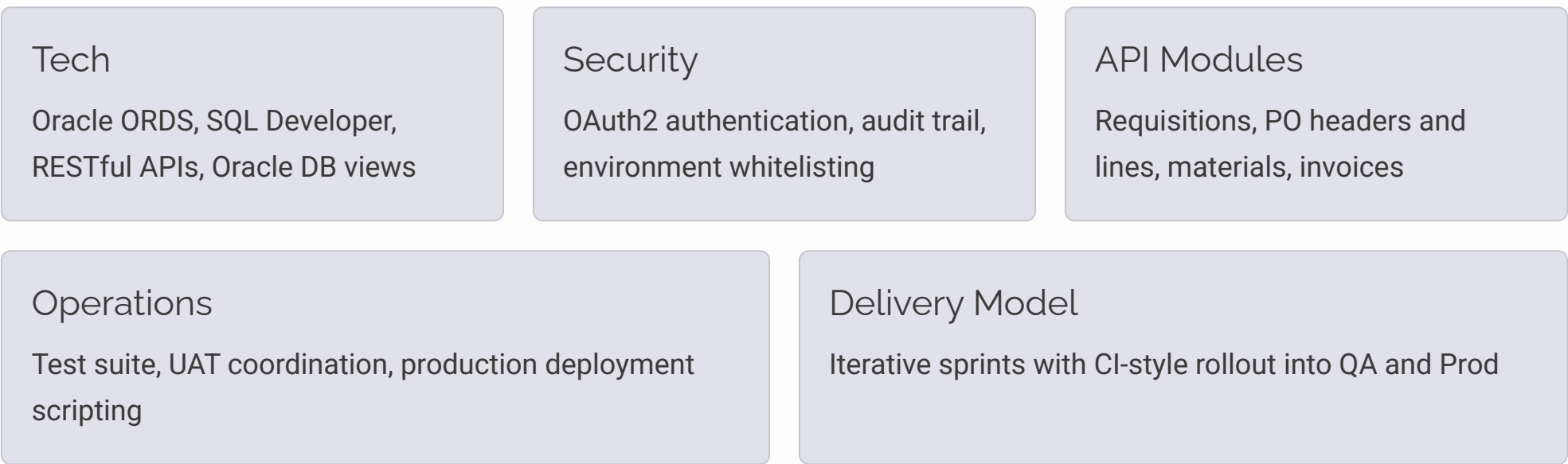


## My Role

As the lead Architect and Development Manager, I:

- Conducted API and data modeling workshops with key business units
- Designed a **secure, modular Oracle ORDS API architecture**
- Led the development of Create/Read/Update/Delete endpoints for requisitions, POs, inventory, and invoices
- Designed a "heartbeat + audit trail" system to monitor data exposure
- Managed deployments and worked directly with downstream system leads for successful integration

## Stack & Execution



## Outcome

- All scoped APIs delivered within timeline
- Enabled real-time procurement insights and automation across 4 departments
- Significantly reduced turnaround time for material tracking and approvals
- Created reusable data and API blueprints for future systems
- Provided foundational shift from extract-based to service-based data flow

# Case Study 3: Enterprise Integration Architecture Using Oracle ORDS

**Industry:** Professional Services **Role:** Architect & Development Manager **Client Type:** Mid-sized consulting firm modernizing their internal systems **Duration:** 2–4 months (ongoing enhancements)

## Background & Challenge

The firm was modernizing their Oracle Forms-based procurement and approval systems. The goal was to expose transactional data for client-facing applications and partner portals — securely, reliably, and without disrupting live operations.

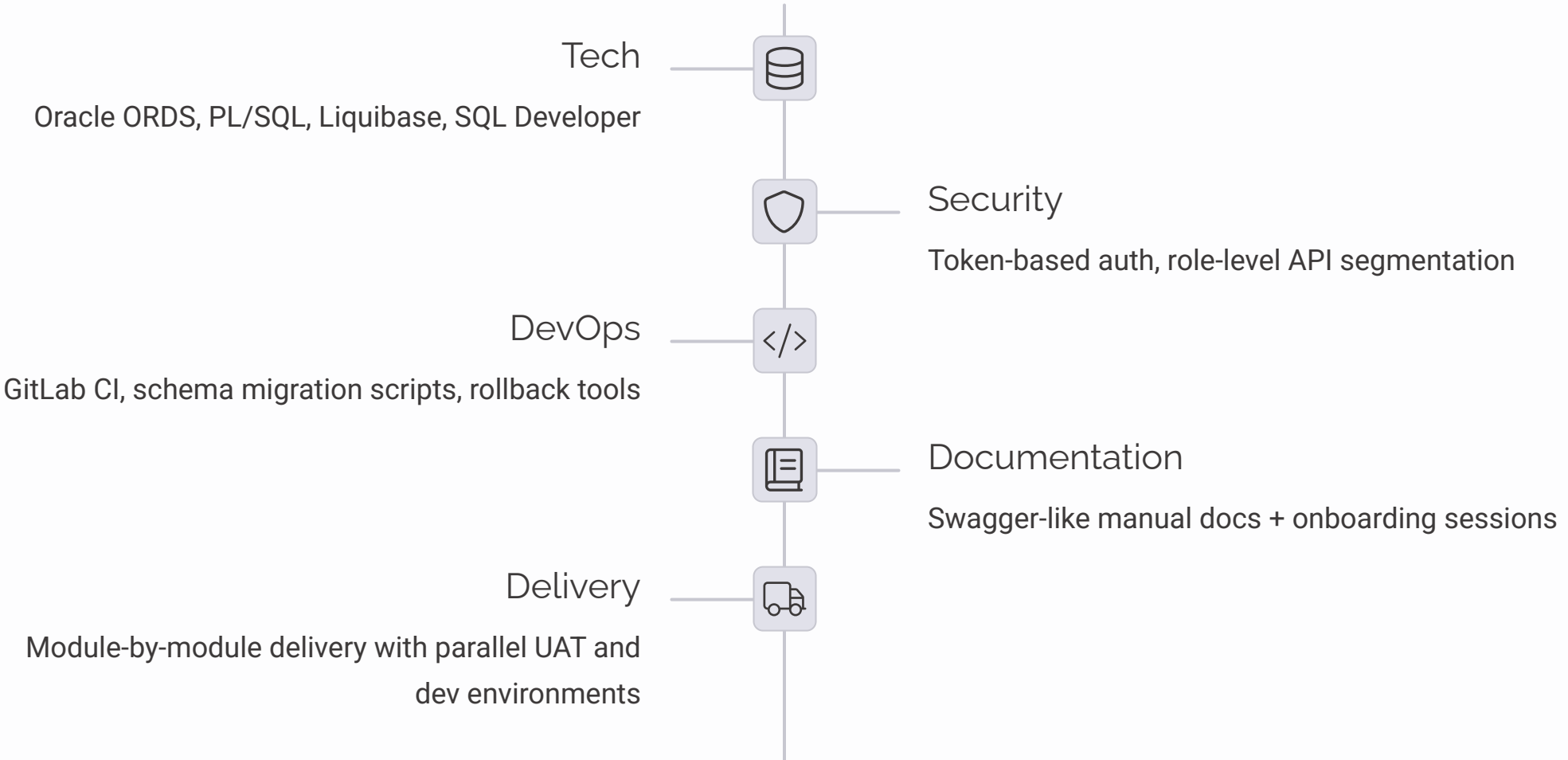
Their IT team lacked experience in API-first design, REST standards, and security practices. They needed architectural direction and reliable execution.

## My Role

I was brought in to design and build a modern API layer that adhered to **RESTful principles** and integrated seamlessly with their Oracle environment. My scope included:

- Designing REST endpoints with clear versioning and pagination
- Building developer-friendly API documentation
- Establishing CI pipelines and environment strategies
- Coaching internal developers and onboarding client tech teams
- Defining long-term architecture to replace file-based exports and email workflows

## Stack & Execution



## Outcome

- Delivered production-ready ORDS API for 6 modules in under 3 months
- Enabled client's partners to integrate directly with approval workflows
- Reduced reliance on manual exports, attachments, and shared drives
- Helped shift internal culture toward API-first thinking
- Delivered a **repeatable playbook** the internal team continues to use