



# Modernizing Legacy Applications Using Oracle APEX and OCI

## PROBLEM STATEMENT:

The client was using a Microsoft Access-based legacy system for managing critical business operations. They required a modern, scalable, and secure solution to replace the outdated system while leveraging their existing Oracle Database license we recommended Oracle APEX. The objective was to build a new Settlement Application efficiently using Oracle APEX and integrate it with other business systems via APIs and Single Sign-On (SSO).

## KEY CHALLENGES:

Migrating from Microsoft Access to a modern web-based solution without disrupting ongoing operations.

Integrating with existing applications using APIs and ensuring seamless data exchange.

Implementing Single Sign-On (SSO) for a unified authentication mechanism.

Ensuring security and compliance with industry best practices.

## SOLUTIONS PROVIDED:

### Oracle APEX-Based Settlement Application Development

- Designed and developed a Custom Settlement Application using Oracle APEX, enabling faster deployment with a low-code approach.
- Migrated data and business logic from the legacy Microsoft Access system to Oracle APEX, ensuring improved scalability and reliability.

## API Development & Integration

- Built secure **REST APIs** to facilitate seamless data exchange between Oracle APEX and external systems.
- Integrated the application with **existing enterprise software**, ensuring real-time data synchronization.

## Single Sign-On (SSO) Implementation

- Implemented **SSO authentication**, enabling users to access the new Oracle APEX-based application using their existing enterprise credentials.
- Ensured **role-based access control (RBAC)** to enhance security and manage permissions effectively.

## Performance Optimization & Security Enhancements

- Leveraged Oracle APEX's built-in security features to protect against vulnerabilities and ensure compliance with data security regulations.
- Optimized queries and database performance for faster processing and better user experience.
- Managing OCI environment.

### KEY BENEFITS:

50% improvement in system performance compared to the legacy Microsoft Access solution.

40% reduction in IT operational costs by utilizing Oracle APEX with an existing Oracle Database license.

Enhanced security and compliance, reducing risks associated with legacy systems.

Seamless integration with third-party systems using API-driven architecture.

Faster deployment and improved user adoption, thanks to the low-code Oracle APEX framework.

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