

CASE STUDIES

BANKING





01.

Client:

A provider of solutions for banks and the FinTech industry mainly on the German market

Product / Service:

Programming support / software development, participation in solution design and tests

Industry:

Banking

Goals:

To implement a system meeting the requirements of the PSD2 directive — open API

Challenges and **problems**

- ★ Requirements developed in parallel to programming work
- ★ Lack of established methodologies and tools supporting software development on the client's side
- ★ The necessity to improve and develop existing client systems
- ★ Integration with external service providers
- ★ The development team lacked sufficient skills in programming in languages other than Java



Tasks

- ★ Conducting requirements analysis and designing the solution
- ★ Selecting the right components in the micro-services architecture
- ★ Agile software development together with the client's team
- ★ Taking care of code quality and testing with unit tests
- ★ Defining test cases and creating end-to-end set of tests
- ★ System deployment support

**Client:**

A leading German bank – merger with top 3 Polish universal banks

Product / Service:

Supporting client in bank merger processes by highly skilled Test Factory team

Industry:

Banking

Goal:

To deliver a Test Factory team for all testing activities within bank mergers

Challenges and **problems**

- * Aggressive project schedule (no shift option)
- * Limited availability of business SMEs
- * Legal and operational merger on the same date
- * Separate project teams working in several locations on remote terminals
- * Cooperation with several vendors engaged in core migration processes
- * Testing environment issues

Tasks

- * Definition of a Test Strategy
- * Regulatory project tests
- * Setup and implementation of a Test Management Office (TMO)
- * Cross-check tests (validation between data migration and SAL)
- * Test planning and test management
- * Left to right tests
- * Test preparation and execution of both data migration and Source Architecture Landscape (SAL) – functional and acceptance tests
- * Direct engagement in Dress Rehearsals in testing and data reconciliation activities
- * Test preparation and execution of Data Reconciliation
- * Test reporting



03.

Client:

One of the oldest private banks in the US

Product / Service:

Test Factory project for one of the largest private banks in the US

Industry:

Banking

Goal:

To plan, prepare and execute User Acceptance Tests within the client's delivery center located in Poland: to prepare and execute a wide range of projects (e.g. e-banking platform, core banking upgrade, regulatory projects and reporting, data migration projects, machine learning, RPA)

Challenges and **problems**

- ★ Increasing number of projects to be tested in the same period of time
- ★ Lack of sufficient skilled testing resources on the client's side
- ★ Combination of deep business knowledge and strong testing capabilities required at the testing team level
- ★ Very short period of time planned for knowledge transfer and start of operational work for the external Test Factory team
- ★ Wide international project experience required for the Test Factory team

Tasks

- ★ Delivery of a highly skilled test team comprised of test managers, test analysts and senior testers (with extensive experience within the financial services industry)
- ★ Test planning and test management
- ★ Preparation of test cases
- ★ Carrying out manual UAT tests (including test execution and test evidence maintenance)
- ★ Reporting defects through JIRA
- ★ Defect management, including assigning defects to analysts / external vendors
- ★ Preparation and running automated test scripts for SIT testing (Java, Cucumber, IntelliJ IDEA, Stash (code repository))
- ★ Analysis of test reports and giving feedback to the Business Owners

**Client:**

One of the largest universal banks in Poland

Product / Service:

Migration of data warehouse supply from Oracle solutions (Oracle Warehouse Builder, PL SQL) to IBM InfoSphere DataStage

Industry:

Banking

Goal:

To transfer existing ETL processes to IBM InfoSphere DataStage

Challenges and **problems**

- * Migration scale (c. 500 stars, over a billion lines processed as part of daily data loading, over 100 GB of daily data increments)
- * Tests and cooperation of development team with data warehouse owners
- * Incomplete business documentation
- * Optimization of warehouse loading time using the strengths of DataStage environment
- * Preparation of business test cases for developer tests
- * Changing the approach in ETL solutions by eliminating the Operational Data Store layer



- * Cooperation with teams from another city

Tasks

- * Developing agile ETL processes and minimizing the risk of errors
- * Developing a communication path with Data Officers responsible for testing individual warehouse areas
- * Providing support during tests — helping to find errors and discrepancies between the documentation and the actual status of processes
- * Cooperating with other customer teams
- * Automating some aspects of data warehouse migration

- ★ Ensuring data lineage and strict adherence to technical conventions established prior to migration
- ★ Refreshing the documentation and creating new documentation based on metadata, in a manual and automated manner, using open source tools
- ★ Self-organization of the team in the scrum methodology
- ★ Support for a dedicated customer framework (configuration, parameterization)
- ★ Support for test environments and implementation of test cases as part of UAT tests



Client:

Austrian commercial bank

Product / Service:

Development, maintenance and optimization of data warehouses

- Data model prepared for the needs of the Polish and Austrian company
- Optimization, development and maintenance of data warehouse layers
- Analyses of data marts and reporting

Industry:

Banking

Goal:

- To maintain and develop systems after the division of banks
- To create new data warehouse components for new systems
- To optimize data warehouse only for the necessary data in the area
- To exclude unnecessary processes after dividing the bank

Challenges and **problems**

- ★ No access to production data
- ★ Incorrect and incomplete test data
- ★ Limited analytical documentation
- ★ Lack of people who are well-versed in source systems
- ★ Lack of people who are familiar with the adopted target systems
- ★ Lack of complete knowledge about the data warehouse
- ★ Resource restrictions

Tasks

- * Developing a roadmap for system optimization
- * Arranging the scope of works in the warehouse
- * Analyses of source systems, data warehouses and extracts for external systems
- * Optimization and development in the data warehouse
- * Developing and testing introduced changes



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