



Shaping Healthcare Possibilities

Success Story

Enhancing Data Pipeline Efficiency and Reliability: ETL Automation for a Pharmaceutical Giant

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About the client

A leading multinational pharmaceutical company renowned for its research and development in healthcare solutions

The Challenge

The two expectations in the Client's business problem were:

- To identify an appropriate automation tool for streamlining ETL testing processes, aiming to enhance efficiency and accuracy in data extraction, transformation, and loading tasks, ensuring robustness and reliability in data pipelines
- To analyze existing testing methodologies to pinpoint areas for improvement and suggest tailored solutions, optimizing the testing process for increased efficiency and reliability in software development cycles.

Tools and Technologies

Data bricks	SQL	Data Lake	Power BI
Tosca DI	Git	Jira	HP ALM



The Solution

- Conducted an evaluation of end-to-end Client process flow
- Demonstrated how to leverage automation tools in ETL testing using the Pugh matrix and identified Tosca DI for the requirement
- Explain how automation enhances the accuracy of data extraction, transformation, and loading tasks, ensuring data consistency and reliability
- Analyzed the client's existing testing process, pinpointing critical gaps for enhancement
 - Proper requirements have not been created
 - Inadequate test cases have been addressed
 - Regression suite creation has not been initiated
 - Testing is conducted in the development environment due to recurring data issues faced by testers
- Leveraged a project management tool suitable for encompassing the entire sprint cycle
- Suggested a tool recommendation based on the technology ecosystem
- Developed a 'Dream Test Strategy' through thorough research and analysis which could be used across ETL projects.

The Outcome

- Suggested to the client the key points to track in requirements and test content, including necessary information
- Identified testing gaps and provided necessary solutions to enhance the testing process
- Identified the test framework workflow, required documents, and necessary tools based on the ecosystem.
- Implemented test strategy and scope management, identified appropriate ETL testing tools, conducted assessments, and created an implementation plan
- Based on the client's requirements, the CT team successfully completed Tosca AS1, AS2, TDS1, TDS2, AE1, and DI certifications/Training within the specified timeframe



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Thank You

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