

CITL EXPERIMENT 7

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BRANCH: COMPSA

BATCH: A1

Aim: The objective is to seamlessly integrate web services by utilizing open-source integration tools like MuleSoft.

Theory:

MuleSoft stands out as a widely embraced integration platform, enabling organizations to connect and harmonize various systems, applications, and data sources, whether they reside on-premises or in the cloud. MuleSoft offers an array of capabilities that empower businesses to establish a cohesive and efficient IT environment. Here are the essential elements of MuleSoft's functionality:

Integration: MuleSoft facilitates the linking of diverse applications and systems to ensure smooth data and information flow. It boasts extensive support for connectors and APIs, which enable connections to popular software applications, databases, and services.

Anypoint Studio: MuleSoft's primary development environment, Anypoint Studio, furnishes a user-friendly, graphical interface for creating integration workflows through a drag-and-drop approach, making it accessible to both developers and non-developers.

API Management: MuleSoft offers robust API management capabilities, empowering organizations to create, publish, secure, analyze, and govern APIs. This is crucial for exposing and consuming services and data within an organization.

Data Transformation: MuleSoft accommodates data mapping and transformation, allowing users to modify and reformat data as it moves between different systems. This ensures data compatibility with the target application or system.

Messaging and Queues: MuleSoft provides support for asynchronous messaging and queuing patterns, simplifying data flow management and ensuring the reliable exchange of information between systems.

Real-Time Data Integration: MuleSoft excels at real-time data synchronization and integration, granting organizations access to the most up-to-date information across their systems.

Security and Governance: MuleSoft incorporates features for ensuring data protection, including authentication and authorization. This guarantees compliance with organizational policies and regulatory requirements.

Scalability: MuleSoft is designed to be scalable, capable of handling substantial volumes of data and transactions, which is particularly valuable for enterprises with growing integration demands.

Cloud Integration: MuleSoft provides connectors and adaptors for a wide range of cloud services, allowing organizations to integrate on-premises systems with cloud-based applications and platforms seamlessly.

Analytics and Monitoring: The platform offers tools for monitoring and analyzing the performance of integration flows and APIs, enabling organizations to detect issues and optimize their integrations.

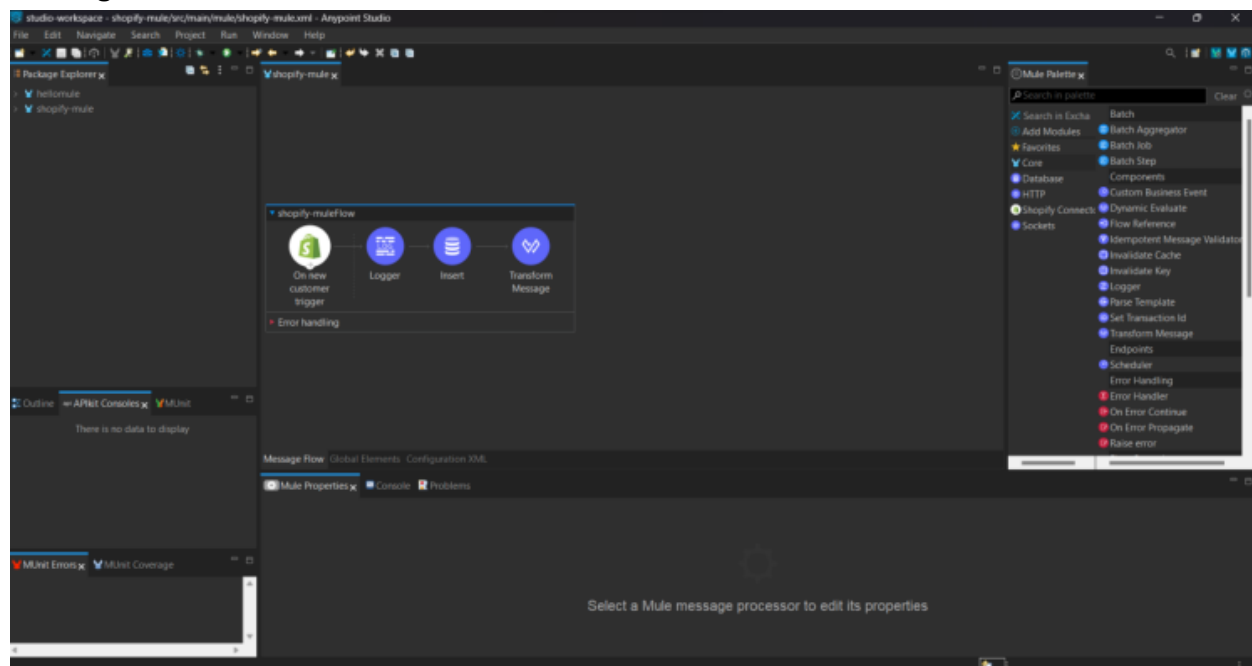
Community and Ecosystem: MuleSoft boasts an active user community and marketplace, providing a platform for users to share connectors, templates, and best practices. This fosters collaboration and expedites integration efforts.

Hybrid Integration: MuleSoft adeptly supports hybrid integration scenarios, making it feasible to connect legacy systems with modern cloud-based applications.

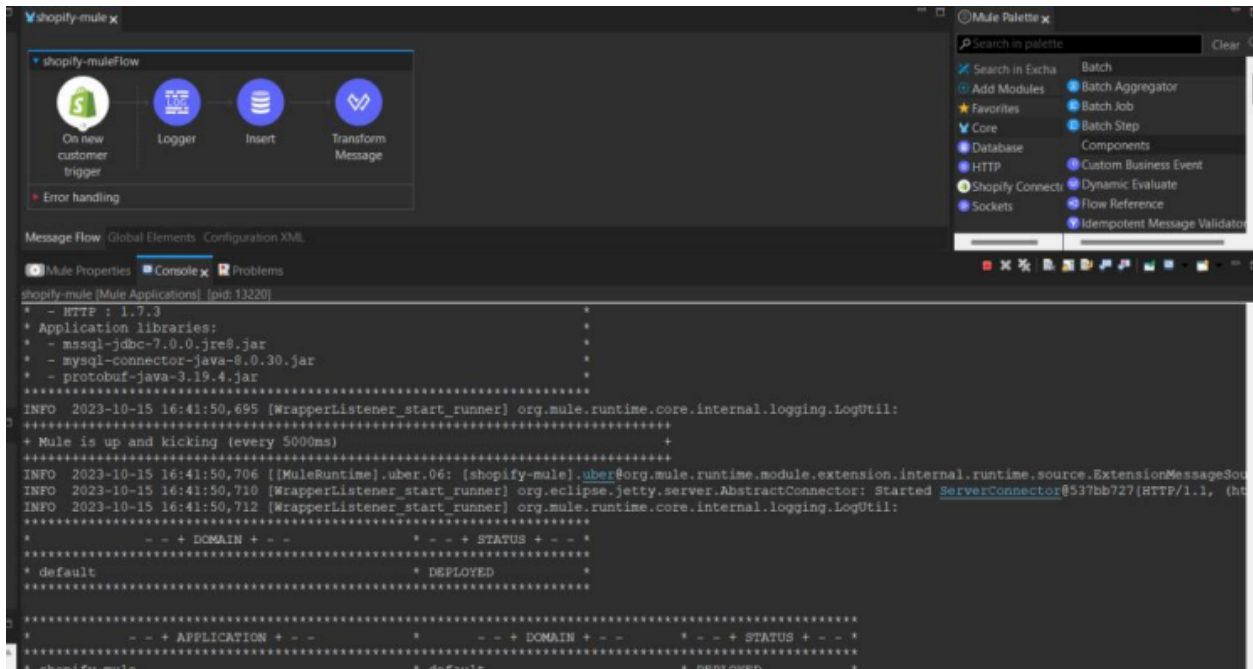
MuleSoft's flagship product, Anypoint Platform, presents a unified approach to integration, API management, and connectivity. Its goal is to simplify the process of linking systems and data sources, rendering it a favored choice for businesses seeking operational efficiency and adaptability in the face of swiftly evolving technological landscapes.

OUTPUT:

Message flow:



Project Live:



Adding a new customer:

← New customer


Customer overview

First name: Last name:

Language:

This customer will receive notifications in this language.

Email:

Phone number: 

☒ Customer agreed to receive marketing emails.

☒ Customer agreed to receive SMS marketing text messages.

You should ask your customers for permission before you subscribe them to your marketing emails or SMS.

Inserted the customer data in the cust_details database:

id	first_name	last_name	phone
1	John	Doe	555-123-4567
2	Jane	Smith	555-987-6543
3	Bob	Johnson	555-789-1234
4	Alice	Wilson	555-234-5678

Conclusion: Performing this experiment we have learnt a way to integrate services provided by Salesforce. These include Mulesoft, AnyStudio. In this case study we used shopify connector and added new customers.