MuleSoft

COURSE CURRICULUM

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MuleSoft 4.X from Scratch and In-depth ESB Introduction

- Problems of Point to Point Integration
- What is an ESB?
- How an ESB helps in solving problems with P2P Integration
- Idea behind an ESB – How does it work?
- What is Orchestration?
- What is a Mule?
- What is Anypoint Platform for Mule?

Mule Basics

- What is a Mule Flow?
- What is Event Processor?
- How does a Mule Event look like?
- What is a Transformer, Endpoint?
- Introduction to Anypoint Studio
- Describe the structure of new Mule 4 projects and deployable archives
- Debugging a Mule flow
- Structure of a MuleEvent in detail
- Track event data as it moves in and out of a Mule application
- Introduction to DataWeave 2 as Mule Expression Language
- Lab: Implementing a basic flow and debugging it

Using Java Module

- Understanding modules in Mule
- Call static and non-static Java methods using the new Java module
- Lab: Using Java Module

Deploying Applications on Standalone Mule Server and Runtime Manager

- Starting standalone Mule Server
- Understanding various configurations in Standalone Server
- Deploying applications manually to standalone server
- Registering a standalone server in Anypoint Runtime Manager
- Deploying application to standalone server using Runtime Manager

HTTP & Web Services Integration

- Starting standalone Mule Server
- Understanding various configurations in Standalone Server
- Deploying applications manually to standalone server
- Registering a standalone server in Anypoint Runtime Manager
- Deploying application to standalone server using Runtime Manager

File Endpoint

- Configuring file connector
- Trigger a flow when a new file is added to a directory
- Writing a file to file system
- Lab: Reading and writing files

Database Endpoint & Externalization of Properties

- Configuring Database Connector
- Configure the Database Select operation
- Externalizing configuration to YAML file
- Add secure properties to Mule4 applications
- Migrating between environments
- Lab: Config of database endpoint and externalization

Watermarking & Object Stores

- Trigger a flow when a new record is added to a database
- Use automatic watermarking
- What are Object Stores?
- Schedule a flow and use manual watermarking using Object Stores
- Lab: Using Database Select Operation, Watermarking, and Object Stores

Introduction to Domains

- Understanding Mule Domains
- Sharing global configurations across multiple projects
- Create Mule 4 domains using Maven coordinates
- Lab: Creating and using Mule domains

Routing

- Scatter-Gather Router
- Choice Router
- Lab: Implementing Scatter-Gather Router

JMS Endpoint

- Configuring JMS Connector
- Sending JMS message using Publish endpoint
- Receiving JMS message using JMS Listener
- Using JMS Selectors
- Using Publish Consume to send & receive JMS replies
- Setting JMS headers
- Lab: Using JMS Module

Transformers (DataWeave)

- Introduction to DataWeave
- Writing DataWeave expressions
- Previewing transformations in Studio
- Externalizing DWL files
- Writing expressions for XML, JSON, JAVA
- Transforming XML to JSON and vice versa
- Using Message Variables in DWL
- Lab: Transformations for JSON, XML, and JAVA
- Transforming complex data structures
- Working with collections using map
- Using $ during iteration
- DataWeave Operators (OrderBy, filter, etc.)
- Conditional Logic, Formatting, Custom DataTypes
- Lab: Transforming complex data structures
- Lab: Using DataWeave with Database, WebService, and HTTP

Error Handling

- What happens when an exception occurs in a flow?
- Handling System Exceptions
- OnErrorContinue vs OnErrorPropagate
- Application-level error handling
- Handling specific error types
- Mapping to custom error types
- Reconnection strategy for connectors
- Validations to throw Mule 4 errors
- Lab: Handling errors

MUnit

- Functional testing of Mule flows using MUnit
- Lab: Writing a sample test case

Connector Hands-On

- Example: Salesforce Connector

Modern API Structure

- Experience Layer, Process Layer, System Layer

Designing APIs

- Use API Designer to define an API with RAML
- Use the Mocking Service to test an API
- Add request and response details
- Add and share an API in Anypoint Exchange
- Lab: Designing a RAML in API Designer

Managing APIs

- Deploy application to CloudHub
- Lab: Deploying a proxy and managing policies using API Manager

Thank you

Thank You for Going Through MuleSoft Curriculum
We hope this guide has provided a clear and structured learning path to strengthen your skills in MuleSoft.

📌 **NEXT STEPS**

- Start practicing with real-world use cases and hands-on exercises
- Build personal or client-based projects for your portfolio
- Keep exploring updates and best practices in the industry
- Join discussions and stay connected with the community

📞 Need Help or Guidance?

Feel free to contact our course support team:

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