

MuleSoft Fundamentals cookbook (Real-Time Project Scenarios)

**Step by Step Video tutorials -
Most Awaited Self Paced Course**



Complete step by step guide to learn mulesoft from scratch

- Explanation for every topic
- Real-time example use cases
- Hands-On sessions

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Session 0

Basics



Session 0 - Agenda

1. What is webservice?
2. What is an API? What is integration?
3. What is Variable?
4. What is JSON data?
5. What is XML data?

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Session 0 - Agenda

6. What is HTTP service?

7. What is Endpoint URL?

8. What is flow, subflow, private flow?

9. What is payload & message structure?

10. What is database?

Session 1

Setting up your system



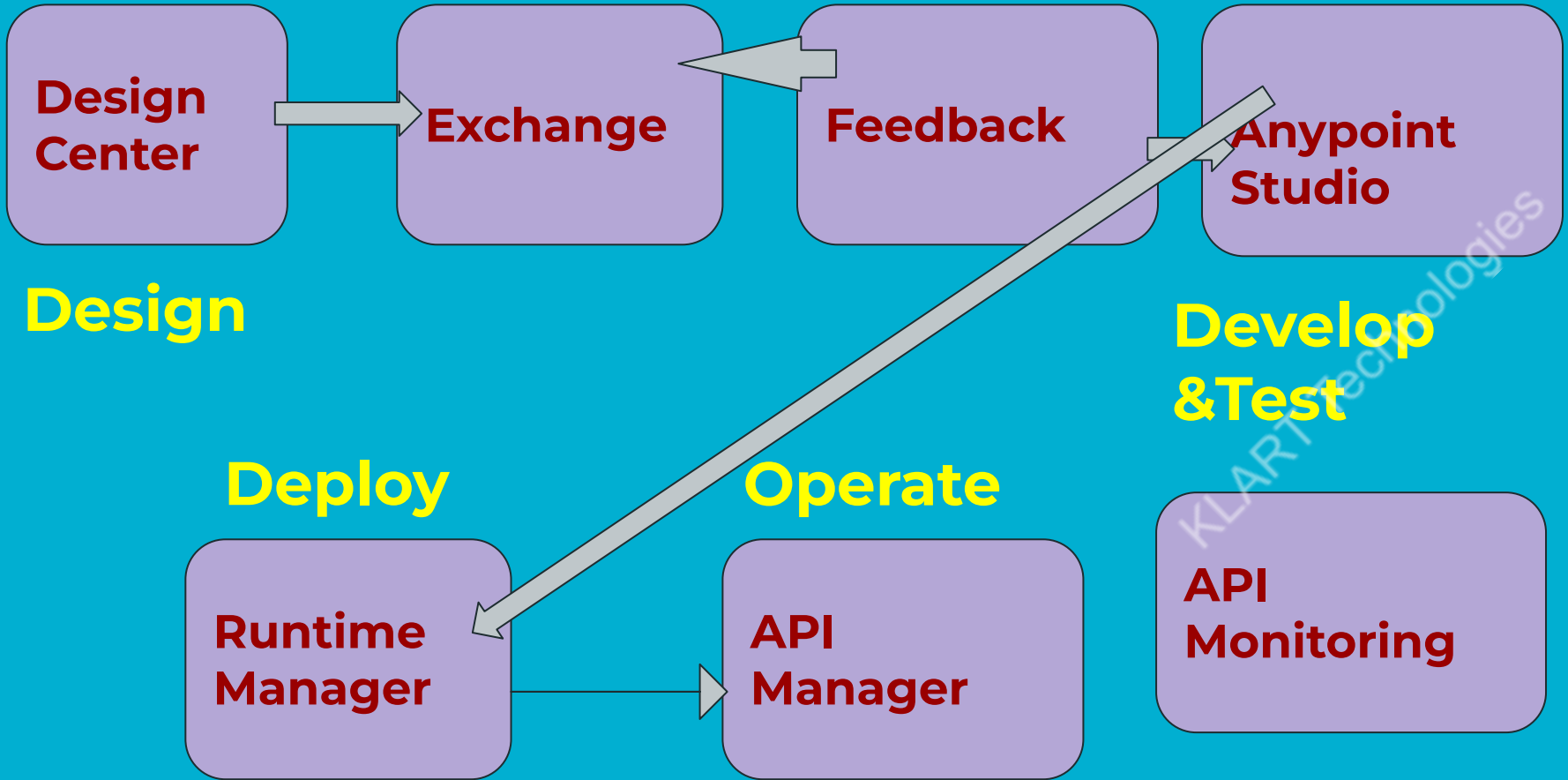
Session 1

- 1. Install Java,Maven,postman & setup environment variables.**
- 2. Anypoint Studio setup**
- 3. Cloudfoundry , Github setup**
- 4. Anypointstudio & cloudfoundry walkthrough**

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API LifeCycle in MuleSoft

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Design

Develop & Test

Deploy

Operate

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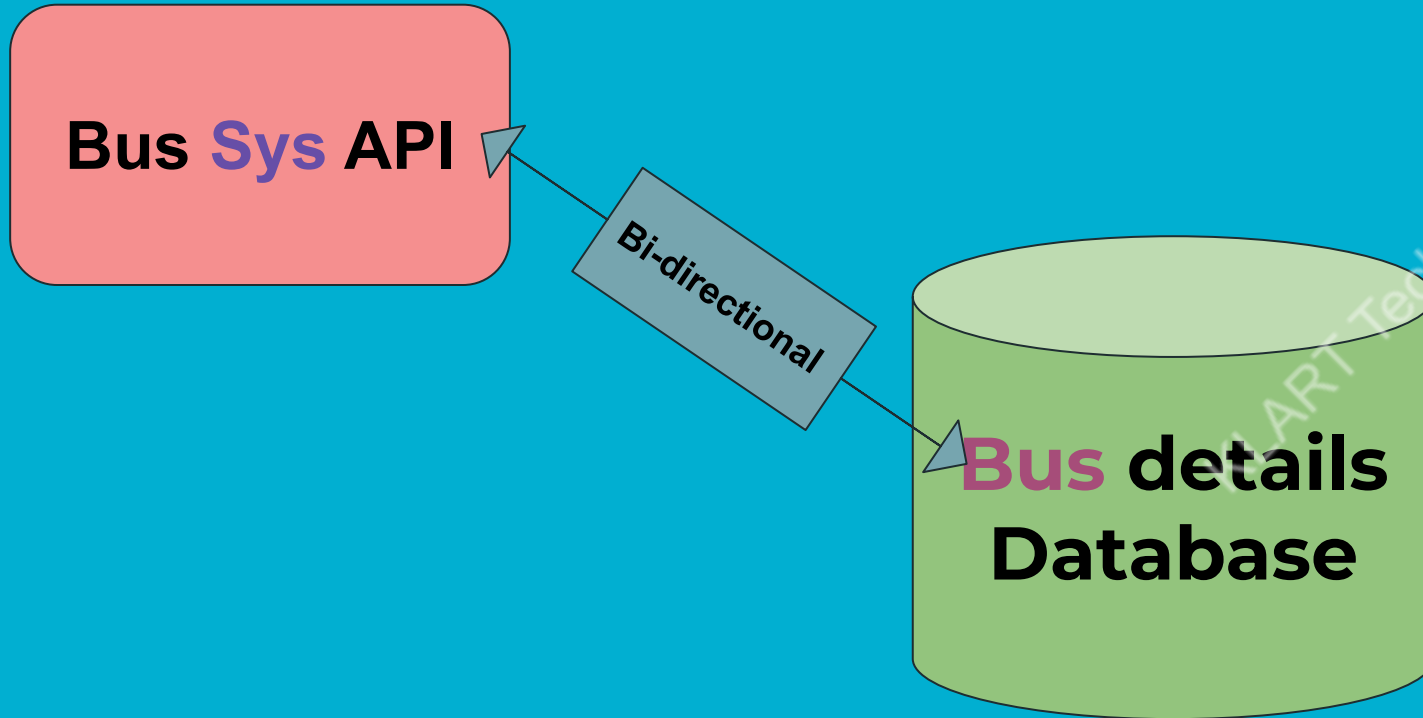
Hands-on



Real-time Usecase

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Travel Application



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Requirements Discussion

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Requirements Gathering

- 1. What are the different features to be in REST API?**
- 2. What actions to be performed?**
- 3. CRUD operations on data?**
- 4. Discuss about GET,POST,PUT,DELETE methods?**
- 5. HTTP Status Codes.**

Session 2

Design Your First REST API



Session 2 - Agenda

- 1. Create API Spec (RAML)**
- 2. What is query parameters & Uri parameters?**
- 3. ERROR and success responses?**
- 4. Test using mocking service**

Session 2 - Agenda

5. Publish to Anypoint Exchange.
6. Create Basic endpoint in API manager.
7. API documentation in public portal.
8. Test api from exchange.

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Session 3

Develop Your First Mule Application



Session 3 - Agenda

- 1. Create Hello world HTTP service and Call.**
- 2. Scheduling Flows.**
- 3. How to Add Module in Studio.**
- 4. Generate API kit Router flows & discuss**
- 5. Externalize properties.**
- 6. Implement new code for each resource.**

Session 3 - Agenda

7. What is flow and its types.
8. Mule message Structure.
9. Create Environments in clouhub.
10. POM.xml

Session 3 - Agenda

- 11. Create different configuration files.**
- 12. Flow reference to invoke another flow.**
- 13. Auto Discovery.**
- 14. Choice router**
- 15. Debugging**

Session 4

Deployment



Session 4 - Agenda

- 1. Discuss different deployment options.**
- 2. Different environments & Property files.**
- 3. Handson- cloudhub manual deployment.**
- 4. Handson- Deployment using studio**
- 5. Handson-Deployment using Maven.**
- 6. Handson-Promote one environment to another.**
- 7. Runtime properties**

Session 4 - Agenda

8. Creating Client Application to request Access to test application.

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Session 5

Error Handling



Session 5 - Agenda

1. What is error handling in depth.
2. On error propagate, on error continue, raise error, try-catch scope
3. Global error handling.
4. Handson- all

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Structuring Mule application

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Structured Mule flows and application

1. Encapsulate global elements in separate flow and error handling in separate flow.
2. Optimize mule application by segregating flows and files.
3. Log event data.
4. Create variables.
5. Target variables.

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API -LED Connectivity

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API LED Approach

1. What is System Layer / System API?
2. What is Process Layer / Process API?
3. What is Experience Layer / Experience API?
4. Error handling in API LED approach?

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Session 6

Security



Session 6 - Agenda

1. API policies
2. Handson- client id enforcement, BasicAuth, Rate Limiting
3. Create Https service-SSL Handshake
4. HandsOn - One way SSL
5. HandsOn - Two way SSL

Session 6 - Agenda

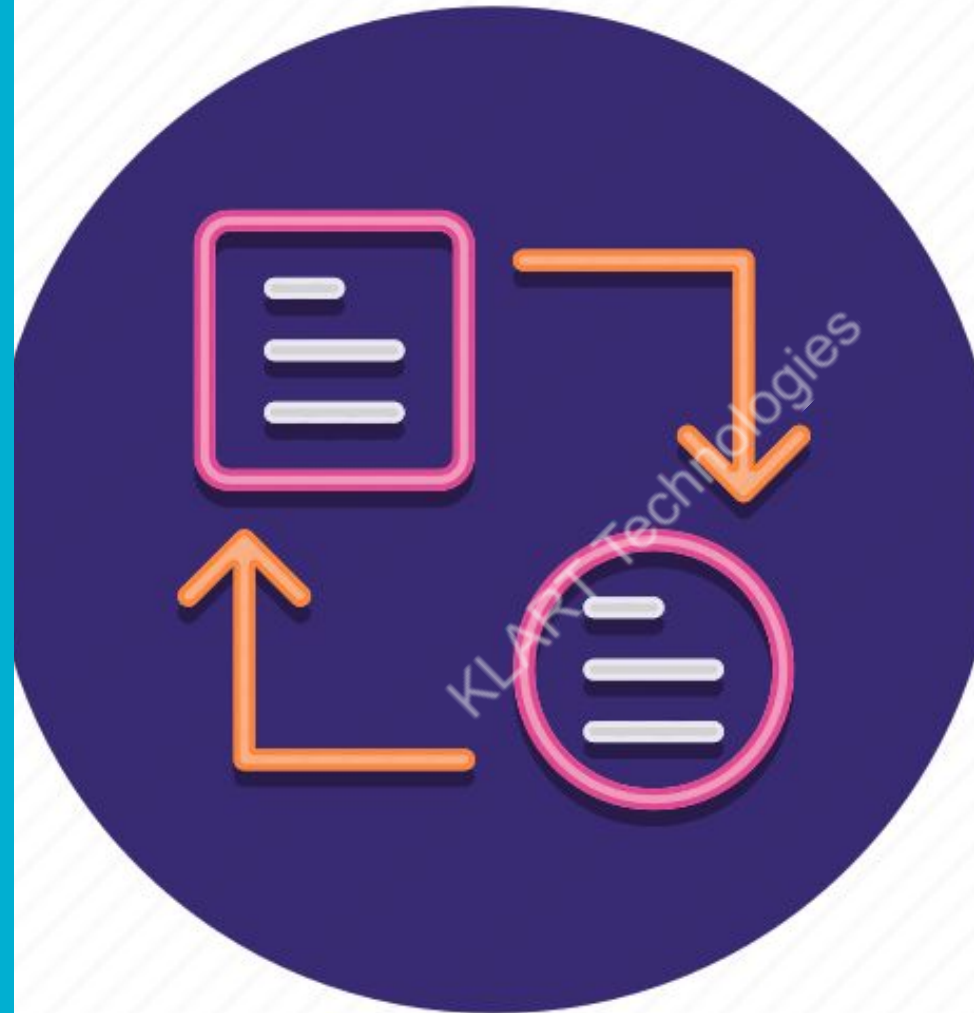
6. Hide properties in cloudfoundry runtime properties.

7. Encrypt properties

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Session 7

Data Transformation



Session 7 - Agenda

1. Basic dataweave transformation.
2. Map,filter ,OrderBy,DistinctBy,groupby
3. String operations.
4. DATE operations.

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Session 8

More important Integrations



Session 8 - Agenda

1. Database connector.
2. Salesforce Integration.
3. Active MQ Integration.
4. File connector.
5. Sending email using SMTP connector.
6. Sending cloudevents notifications.

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Session 8 - Agenda

7. Consuming basic SOAP service.

8. Consuming REST service.

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