Anypoint Platform Development: Fundamentals

Student introductions

- Your name
- Company, role, and location
- Experience with
  - Object-oriented programming / Java
  - Eclipse
  - Anypoint Platform (if any)
- Whether you plan on deploying to MuleSoft-hosted (CloudHub) or customer-hosted runtimes
- What you want to get out of class
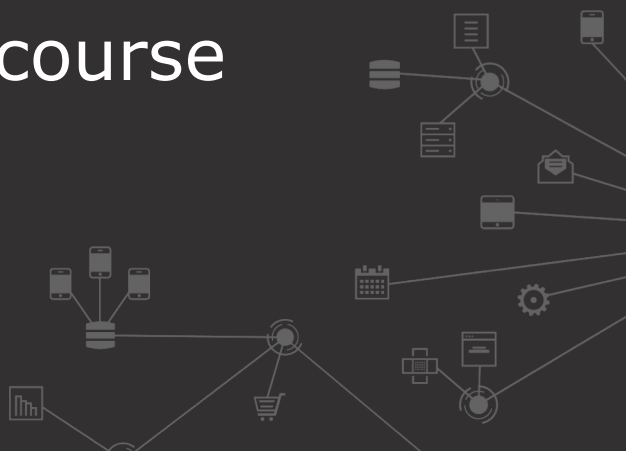
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Course logistics

MuleSoft

- Time
  - Class is for 5 days
  - 1 hour lunch/mid-class break
  - 15 minute break each morning and afternoon

- We know you have two jobs to do this week!
  - If you have scheduled meetings, please let me know
    - We can try to schedule breaks around them

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Introducing the course

At the end of this course, you should be able to

MuleSoft

- **Build an application network using API-led connectivity and Anypoint Platform**

- **Use Anypoint Platform**
    - As a central repository for the discovery and reuse of assets
    - To build apps to consume assets and connect systems
    - To take an API through its complete development lifecycle

- **Use Anypoint Studio** to build & debug integrations and API implementations
    - Connect to databases, files, web services, SaaS apps, JMS queues, & more
    - Transform data using DataWeave, the transformation language
    - Add application logic and handle errors
    - Structure applications to facilitate development and deployment
    - Handle batch data processing

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How the course will work

MuleSoft

- Is primarily hands-on

- Consists of
    - Short lectures (PPT) to introduce a concept
    - Walkthroughs
        - The bulk of class
        - Exercises we do together to learn the content

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Course materials

MuleSoft

- Available on MuleSoft Learning Management System
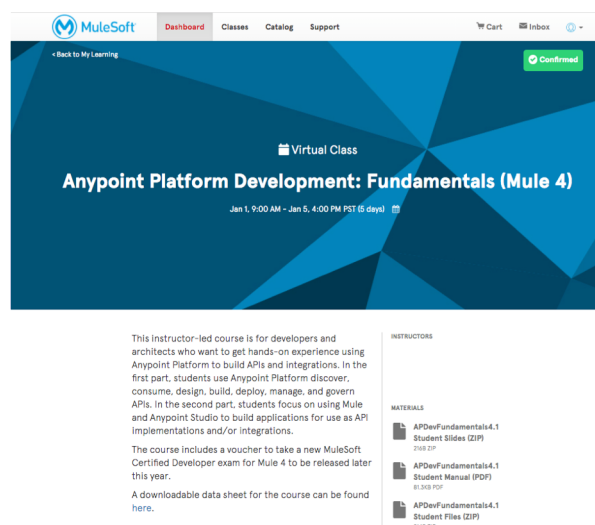 - http://training.mulesoft.com/login.html

- **Student files** (ZIP)
  - Starting files needed to complete some of the exercises
  - Solution files

- **Student manual** (PDF) with steps for walkthroughs

- **Course slides** (ZIP of PDFs)

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Walkthrough: Set up your computer for class

MuleSoft

- Download the course files from the MuleSoft Training Learning Management System
- Make sure you have JDK 1.8 and that it is included in your PATH environment variable
- Make sure Anypoint Studio starts successfully
- Install Advanced REST Client (if you did not already)
- Make sure you have an active Anypoint Platform account
- Make sure you have a Salesforce developer account and an API security token
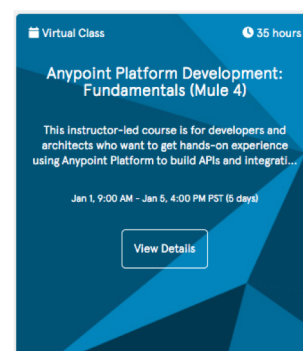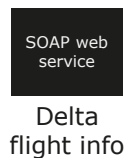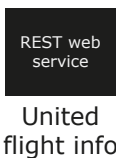
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Introducing the course use case: Mule United Airport

Mule United Airport (MUA)

MuleSoft

- Mule United Airport is a flight hub to multiple locations
- They host three different airlines in their terminals
- Their current architecture has many information silos

MUA
Mule United
Airport, Inc

REST web service
United flight info

SOAP web service
Delta flight info

MySQL
American flight info

MySQL
Accounts

salesforce
Accounts

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First course goal

MuleSoft

- Build an application that consumes a RESTful API for the American flight data
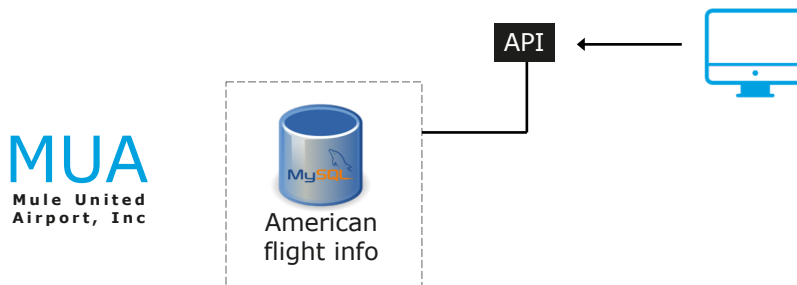
MUA
**Mule United
Airport, Inc**

American
flight info
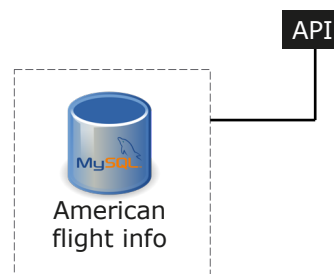
API

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Course outline

MuleSoft

- PART 1: Building Application Networks with Anypoint Platform

  - Module 1: Introducing Application Networks and API-Led Connectivity

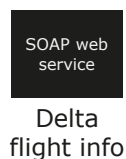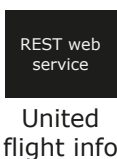 - Module 2: Introducing Anypoint Platform

API

American
flight info

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Second course goal

MuleSoft

- Build the RESTful API for the American flight data

MUA
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REST web
service

United
flight info
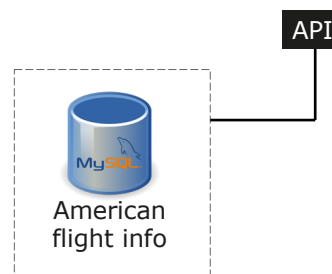
SOAP web
service

Delta
flight info

API

American
flight info

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Course outline

MuleSoft

- PART 1: Building Application Networks with Anypoint Platform (cont)

  – Module 3: Designing APIs

  – Module 4: Building APIs

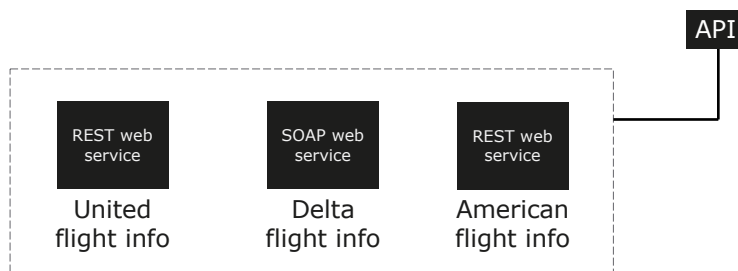 – Module 5: Deploying and Managing APIs

API

American
flight info

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Third course goal

MuleSoft

- Build an API for all the flight data

MUA
**Mule United
Airport, Inc**

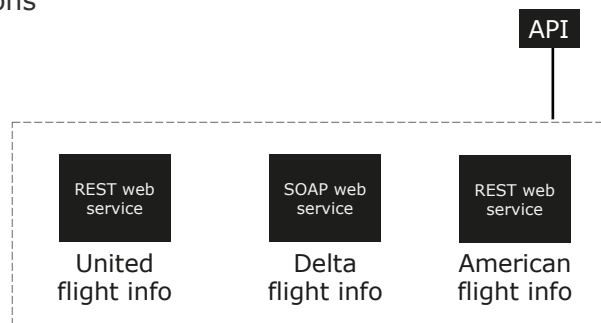| REST web service	SOAP web service	REST web service	API
United flight info	Delta flight info	American flight info	

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Course outline

MuleSoft

- PART 2: Building Applications with Anypoint Studio

  – Module 6: Accessing and Modifying Mule Events

  – Module 7: Structuring Mule Applications

  – Module 8: Consuming Web Services

  – Module 9: Controlling Event Flow

  – Module 10: Handling Errors

  – Module 11: Writing DataWeave Transformations

REST web service	SOAP web service	REST web service	API
United flight info	Delta flight info	American flight info	

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Fourth course goal

MuleSoft

- Synchronize on-prem account data to the cloud

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Airport, Inc**

Accounts   Accounts

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Course outline

MuleSoft

- PART 3: Building Applications to Synchronize Data

    – Module 12: Triggering Flows

    – Module 13: Processing Records

Accounts   Accounts

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