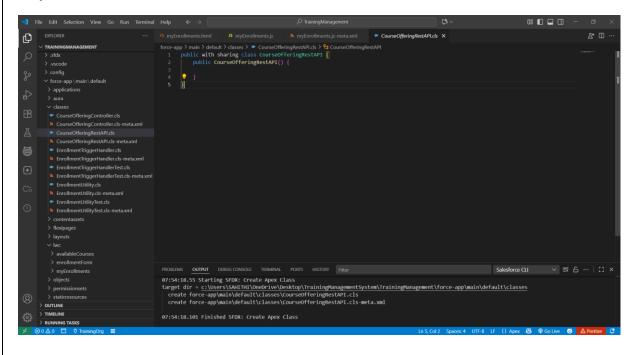
## **Phase 7: Integration & External Access**

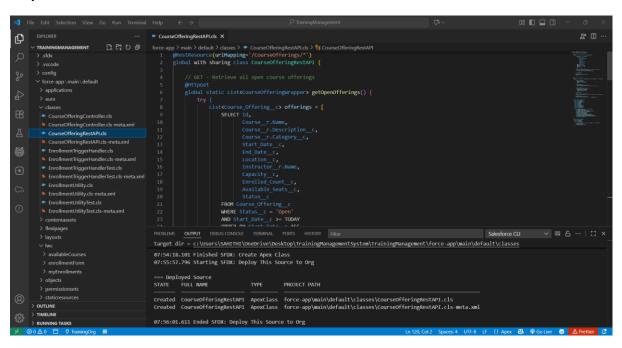
### **Section 1:**

## **Create REST API Endpoint**

### **Step 1: Create REST API Class**

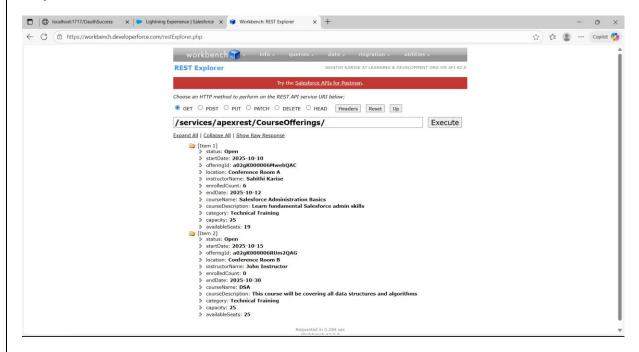


## Step 2: Write REST API Code



**REST API class deployed** 

### Step 3: Test REST API

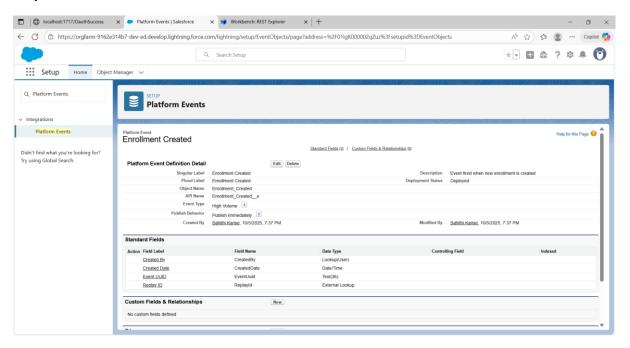


**REST API response in Workbench.** 

#### Section 2:

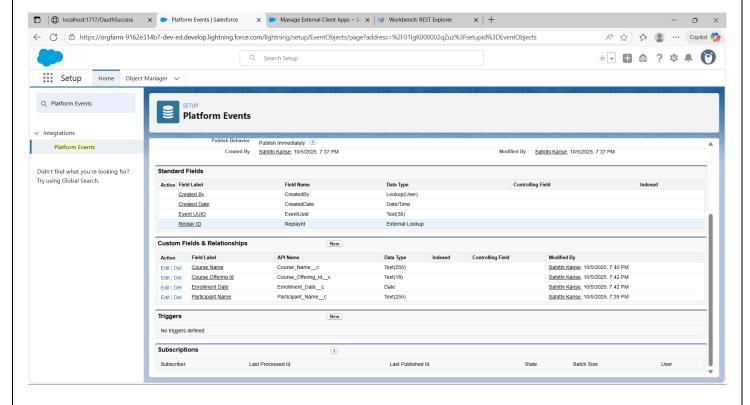
## **Platform Events**

## **Step 1: Create Platform Event**



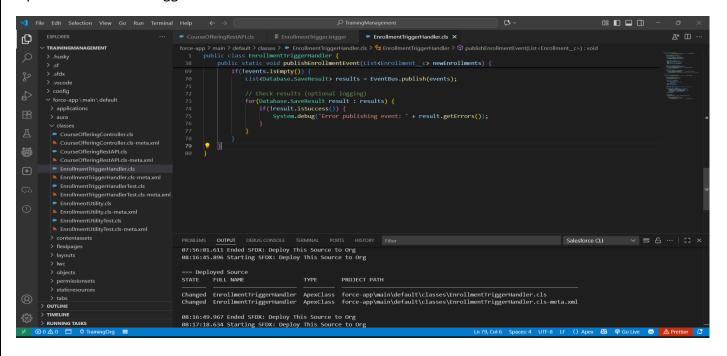
### Step 2: Add Fields to Platform Event

Added Participant Name, Course Name, Course Offering Id and Enrollment Date fields.

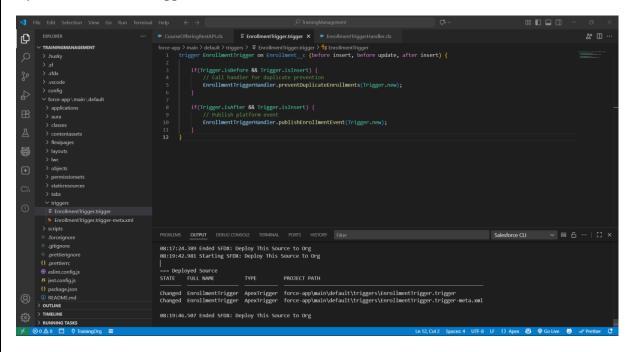


### Step 3: Publish Platform Event from Trigger

Updated EnrollmentTrigger



## Updated EnrollmentTriggerHandler

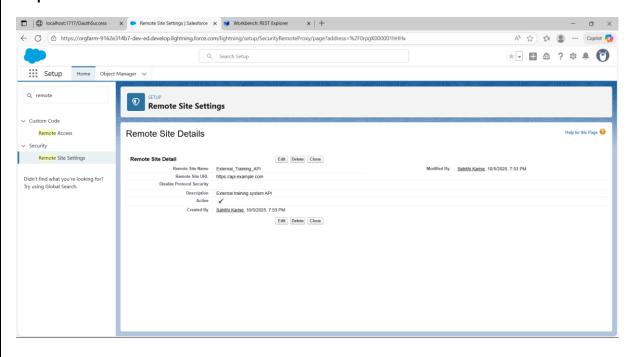


Saved and Deployed both trigger and handler

### Section 3:

## **Remote Site Settings**

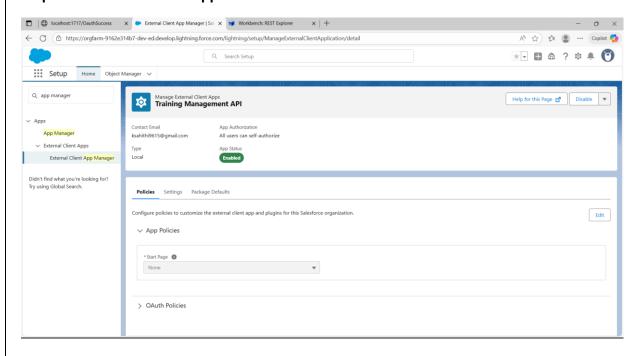
## **Step 1: Add Remote Site**

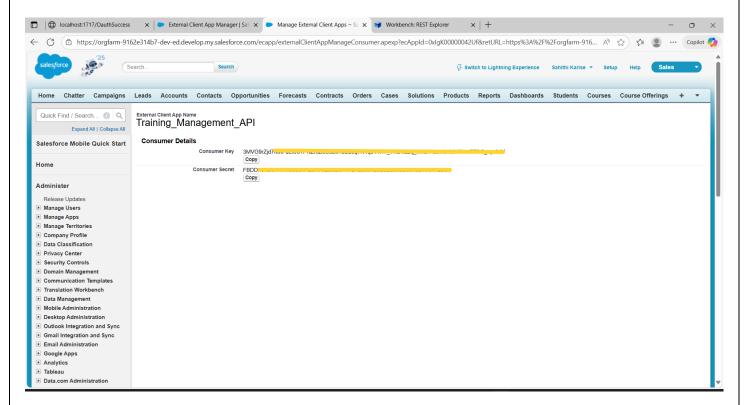


#### Section 4:

## **OAuth & Connected Apps**

## **Step 1: Create Connected App**



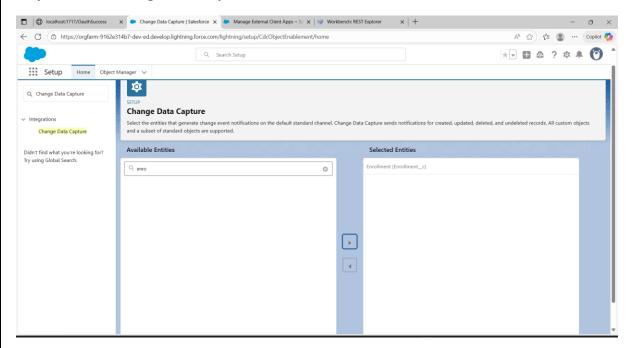


Consumer Key and Consumer Secret

## **Section 5:**

## **Change Data Capture**

## **Step 1: Enable Change Data Capture**



## **Step 2: Document CDC Usage**

### **Change Data Capture Use Case:**

- When enrollment record is created/updated/deleted
- CDC publishes event to external systems
- External systems subscribe to these changes
- Real-time data synchronization
- No polling required

## **Benefits:**

- Near real-time updates
- Reduced API calls
- Efficient data sync
- Event-driven architecture

# **Summary**

## What We Built:

### **REST API:**

- GET endpoint for course offerings
- POST endpoint for enrollment creation
- Wrapper classes for JSON serialization
- Error handling and status codes

#### **Platform Events:**

- Enrollment\_Created\_\_e event
- 4 custom fields
- Publishing from trigger
- Event-driven architecture

## **Integration Components:**

- Remote Site Settings
- Connected App for OAuth
- Change Data Capture enabled
- API documentation

## Security:

- OAuth authentication
- API access control
- Secure external callouts