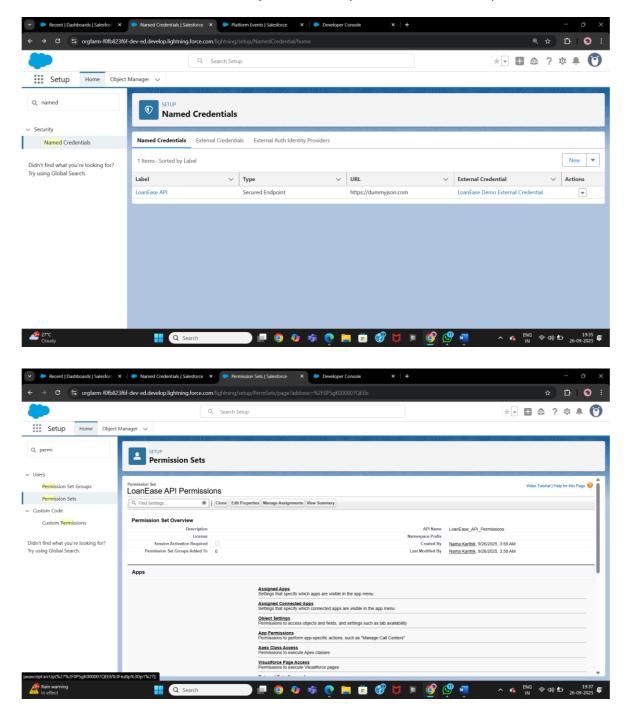
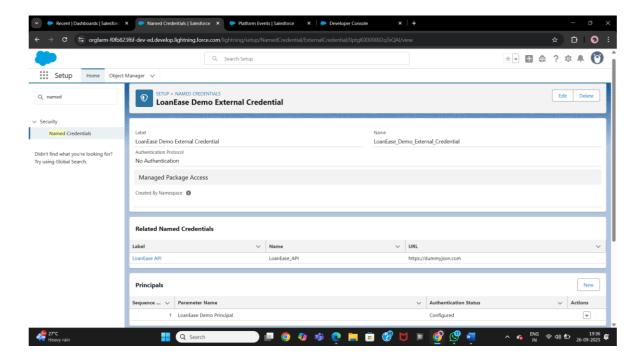
LoanEase: Salesforce Loan Management CRM

Phase 7: Integration & External Access

Named Credentials & External Credential

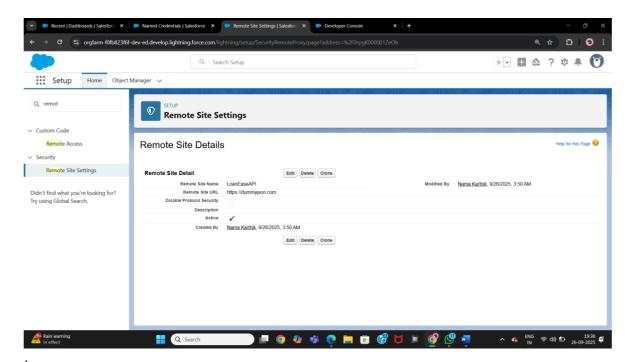
- Created External Credential: LoanEase Demo Ext Credential.
- Created Permission Set: LoanEase API Permissions.
- Mapped Permission Set to the External Credential.
- Assigned Permission Set to the Salesforce user.
- Created Named Credential: LoanEase API pointing to https://dummyjson.com.
- Used the Named Credential in Apex callouts (LoanEaseAPIService).





Remote Site Settings

- Created Remote Site: LoanEaseAPI
- URL: https://dummyjson.com
- · Active checkbox selected

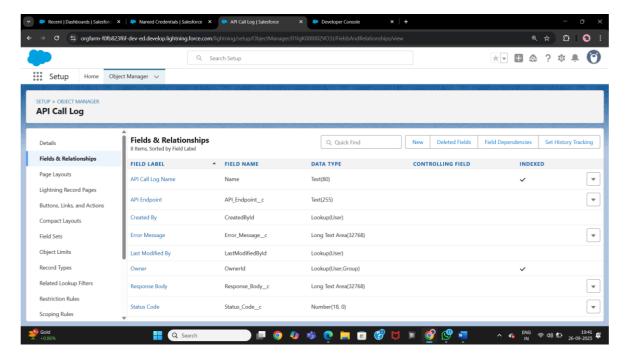


Custom Objects & Fields

- Created Loan c, EMI c, Payment c, API Call Log c objects.
- Added fields based on project requirements:
- Loan_c Fields: Customer_Name_c, Loan_Number_c, Loan_Type_c, Loan_Amount_c, Interest_Rate_c, Start_Date_c, End_Date_c, Tenure_c, Status_c, API_Loan_Id_c
- **EMI__c Fields:** EMI_Amount__c, EMI_Due_Date__c, Installement_Number__c, Loan_c (lookup), Status_c, API_EMI_Id_c
- Payment c Fields: Payment Name c, Payment Date c, Payment Mode c,

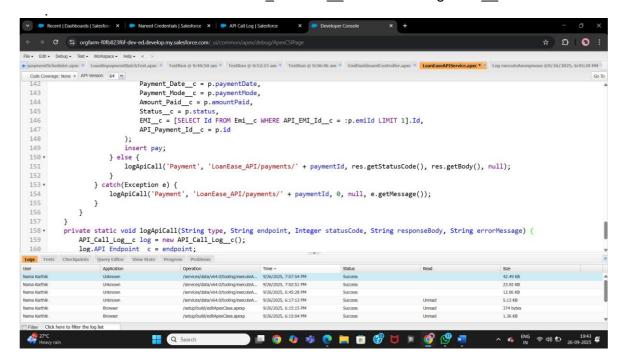
Amount_Paid__c, Status__c, EMI__c (lookup), Loan__c (lookup), API_Payment_Id__c

• API_Call_Log__c Fields: API_Endpoint__c, Status_Code__c, Response_Body__c, Error_Message__c



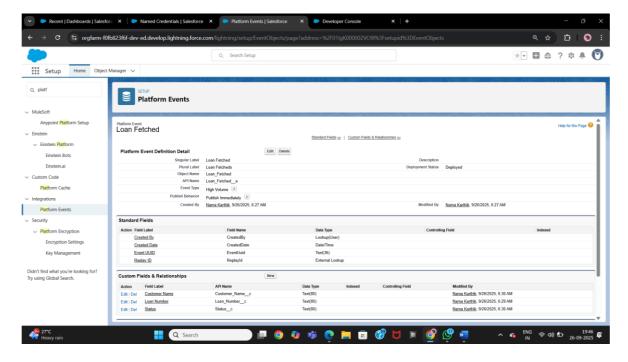
Apex Class Implementation

- Created LoanEaseAPIService class.
- Features implemented:
 - Bulk fetch for Loan, EMI, Payment data via REST API.
 - Deserialization of JSON response into Apex wrapper classes.
 - Insert records into Salesforce objects.
 - Log API call results in **API_Call_Log__c**.
 - Publish Platform Event Loan Fetched e after inserting Loan c records.



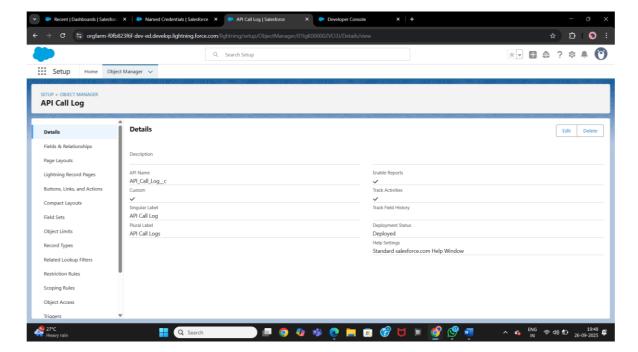
Platform Event

- Created Platform Event: Loan Fetched e.
- Custom Fields: Loan Number c, Customer Name c, Status c
- High Volume and Publish Immediately settings enabled
- Published after inserting Loan_c records to notify downstream processesLoanRecordDisplay: Displays comprehensive list and details of Loan records using wire service for reactive data fetching from Apex.



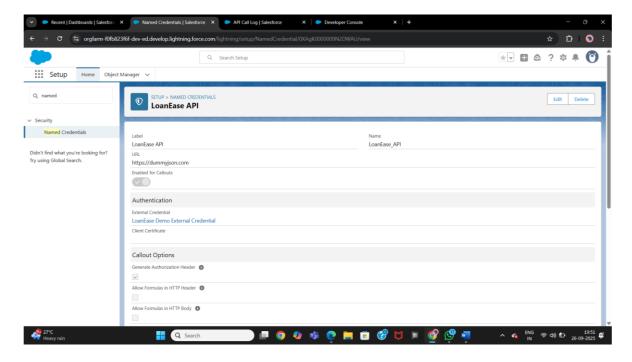
Callouts & Testing

- Callouts tested using dummy API https://dummyjson.com.
- Verified:
 - Loan c, EMI c, Payment c records created correctly.
 - Platform Event Loan Fetched e published.
 - API Call Log c captured errors or responses.



Security & Authentication

- OAuth / authentication managed automatically via External Credential + Named Credential.
- No credentials stored in Apex code.
- Secure API access ensured.



Optional / Future Enhancements

- Change Data Capture (track updates to Loan, EMI, Payment objects).
- Salesforce Connect (for live external data integration).
- External Services / SOAP integration.
- API usage monitoring and bulk optimization.