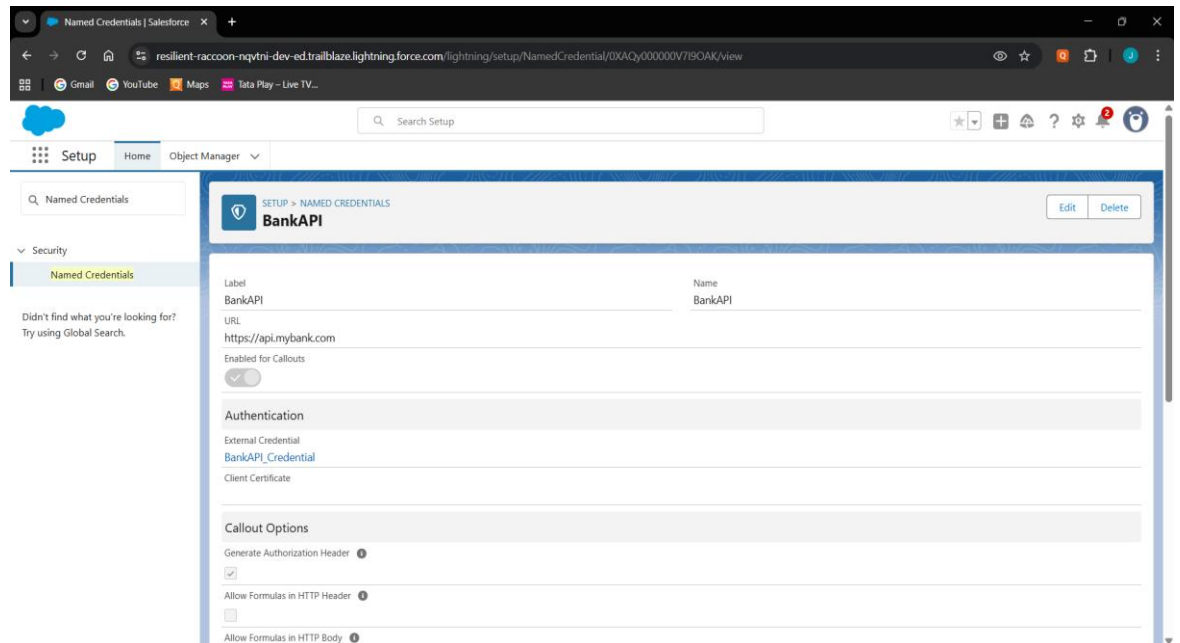


## Phase 7: Integration & External Access

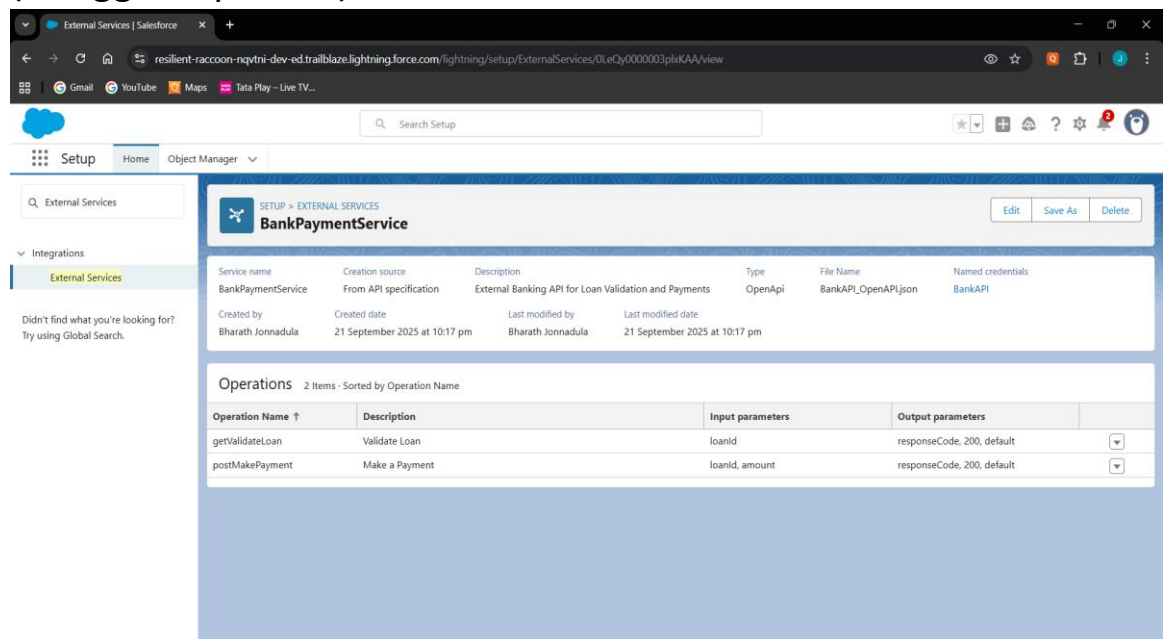
### Named Credentials

- Used to securely store API endpoints + authentication details for external systems.



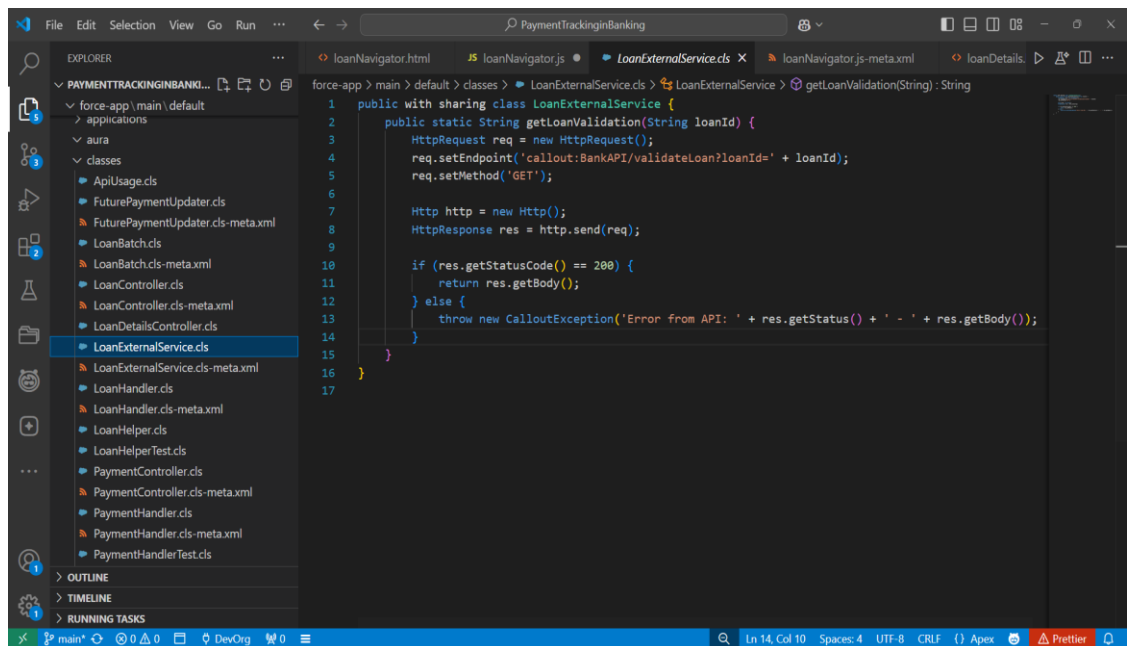
### External Services

- Lets Salesforce call external APIs using schema (Swagger/OpenAPI).



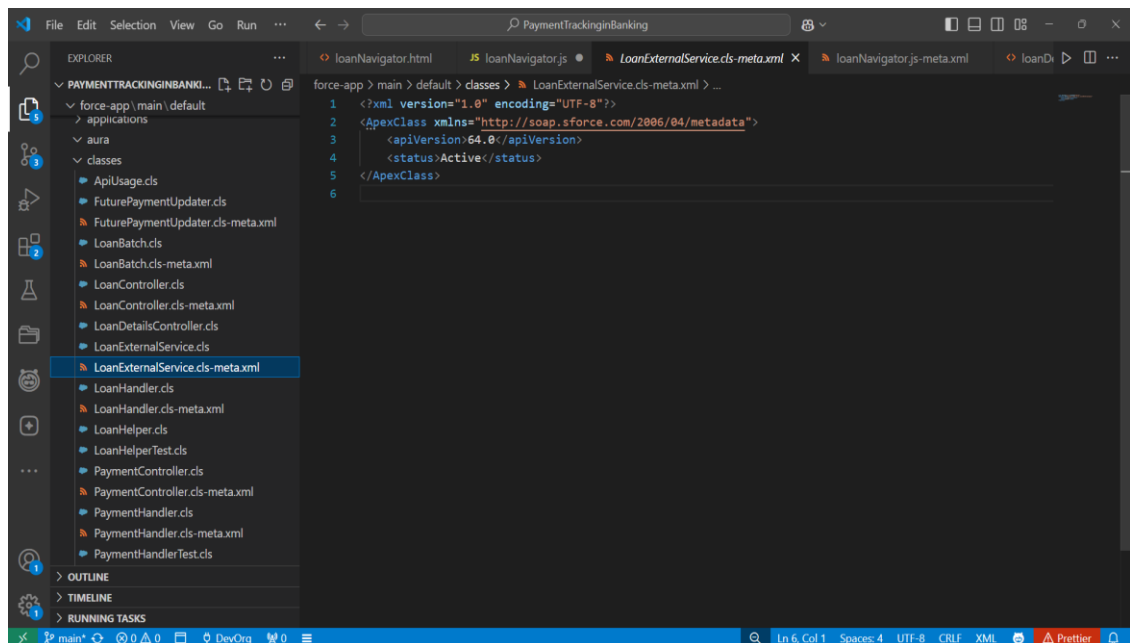
## Web Services (REST/SOAP)

- Allow external system to fetch Loan details.



The screenshot shows the Visual Studio Code editor with the file explorer on the left displaying the project structure. The file `LoanExternalService.cls` is selected. The main editor window shows the following Apex code:

```
1 public with sharing class LoanExternalService {
2     public static String getLoanValidation(String loanId) {
3         HttpRequest req = new HttpRequest();
4         req.setEndpoint('callout:BankAPI/validateLoan?loanId=' + loanId);
5         req.setMethod('GET');
6
7         Http http = new Http();
8         HttpResponse res = http.send(req);
9
10        if (res.getStatusCode() == 200) {
11            return res.getBody();
12        } else {
13            throw new CalloutException('Error from API: ' + res.getStatus() + ' - ' + res.getBody());
14        }
15    }
16 }
17
```

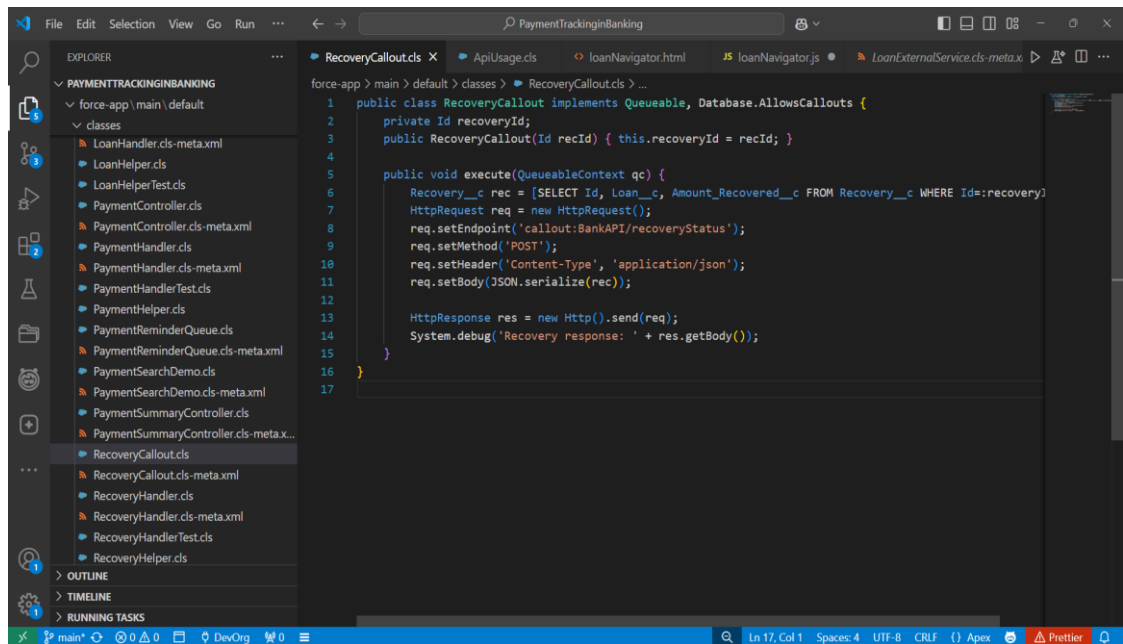


The screenshot shows the Visual Studio Code editor with the file explorer on the left displaying the project structure. The file `LoanExternalService.cls-meta.xml` is selected. The main editor window shows the following XML metadata:

```
1 <?xml version="1.0" encoding="UTF-8"?>
2 <ApexClass xmlns="http://soap.sforce.com/2006/04/metadata">
3     <apiVersion>64.0</apiVersion>
4     <status>Active</status>
5 </ApexClass>
6
```

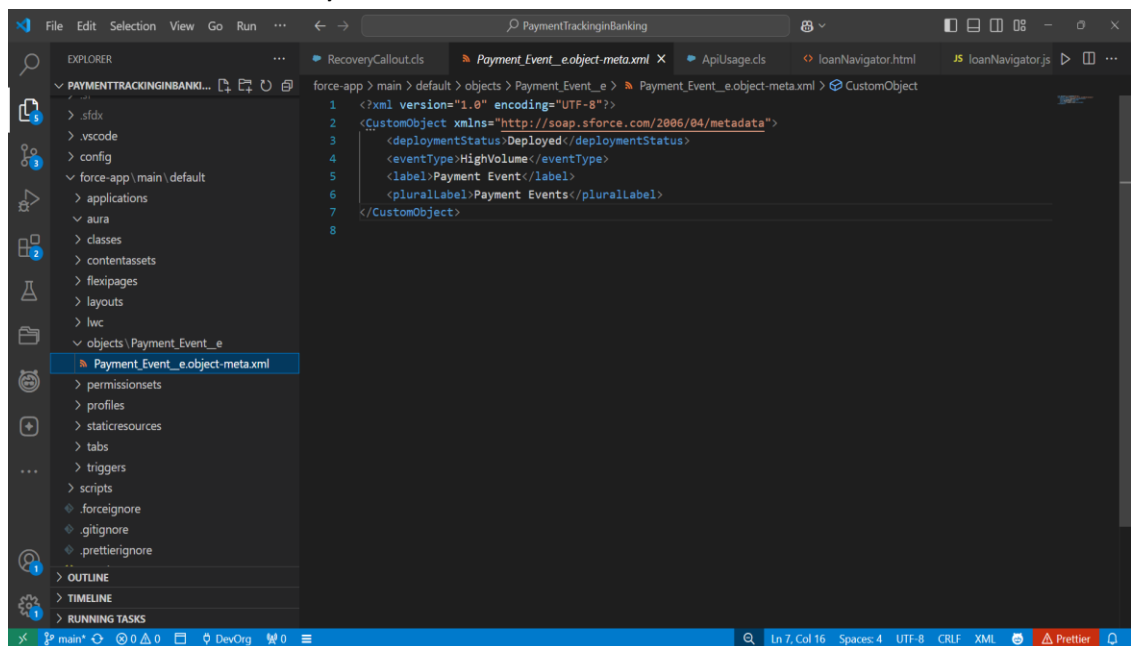
## Callouts

- Used when Salesforce sends data to external services.



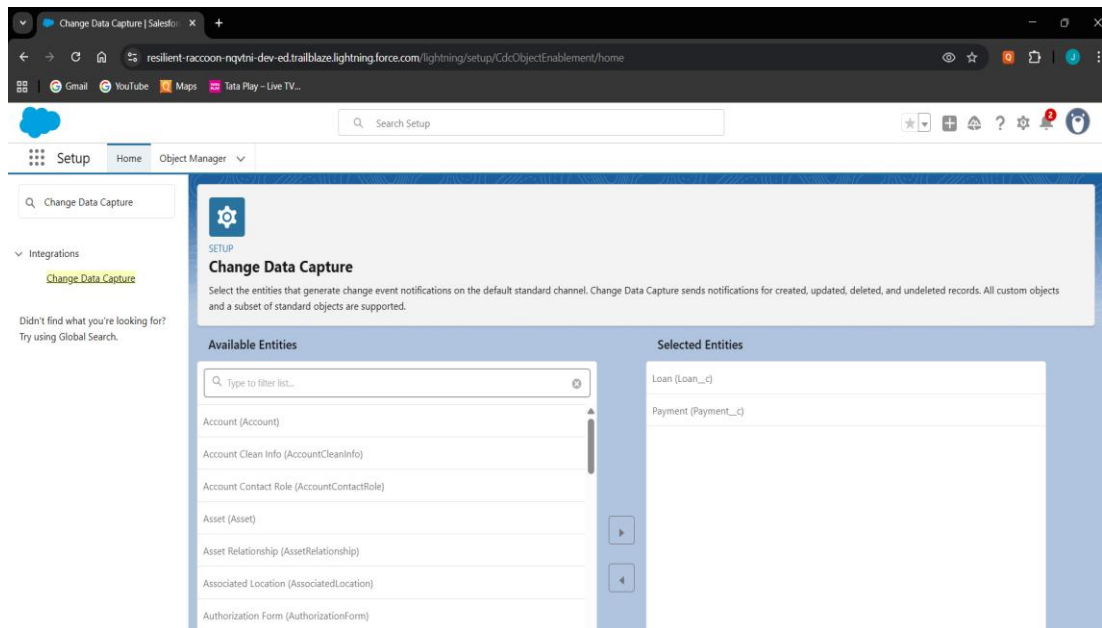
## Platform Events

- Publish event when a Payment is Overdue (integrates with external collectors).



## Change Data Capture (CDC)

- Streams real-time changes of Salesforce records to external systems.
- Ex: Any update in Payment\_\_c record can be pushed automatically to reporting system.

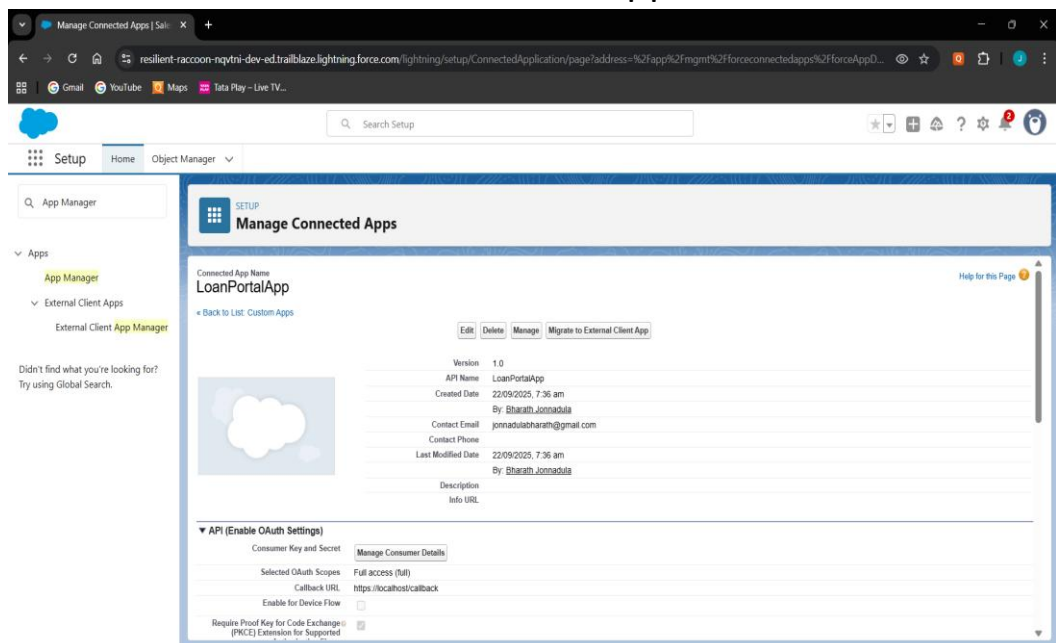


## Salesforce Connect

- Provides real-time view of external data without storing in Salesforce.

## OAuth & Authentication

- Enables secure access for external apps to Salesforce APIs



## Remote Site Settings

- Required to allow outbound callouts to untrusted domains.
- Add <https://api.bank.com> as a Remote Site Setting before making callouts.

