

Phase 7 — Integration & External Access(Online Appointment Booking for legal services)

Topics Implemented

1. Named Credentials

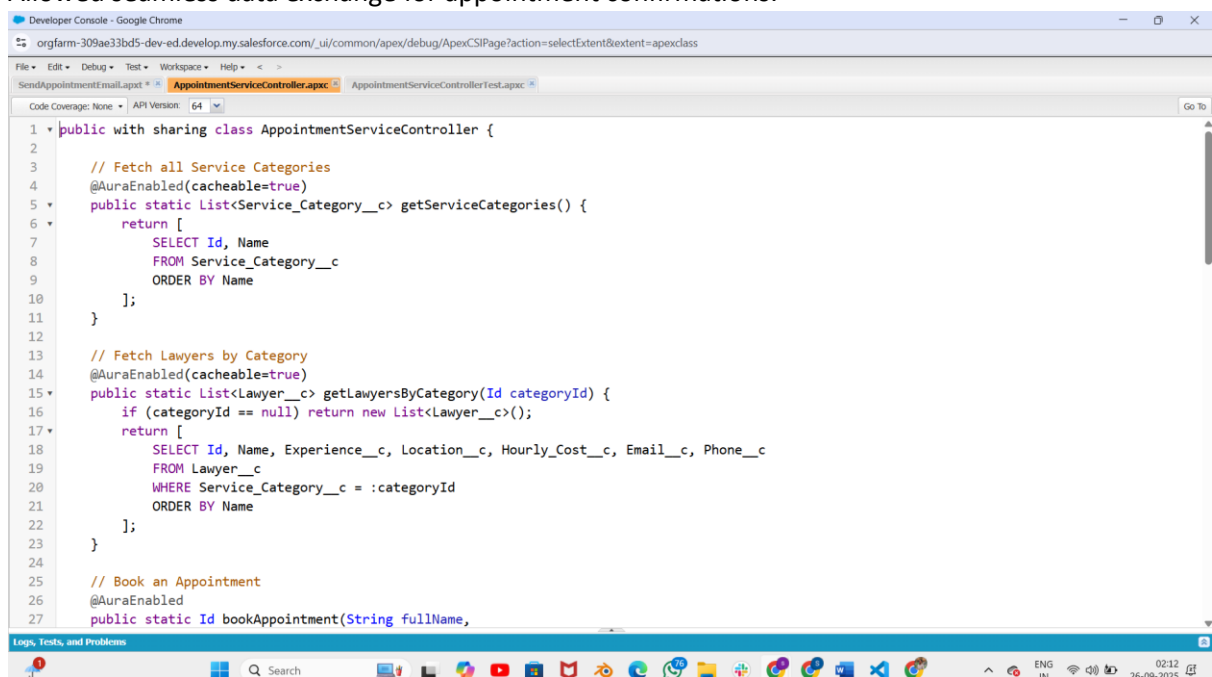
- Configured to securely store authentication credentials for external systems.
- Allowed Apex callouts without exposing sensitive information.

2. External Services

- Registered external APIs to fetch or send data for appointment verification or notifications.
- Enabled declarative invocation via Flows and Apex.

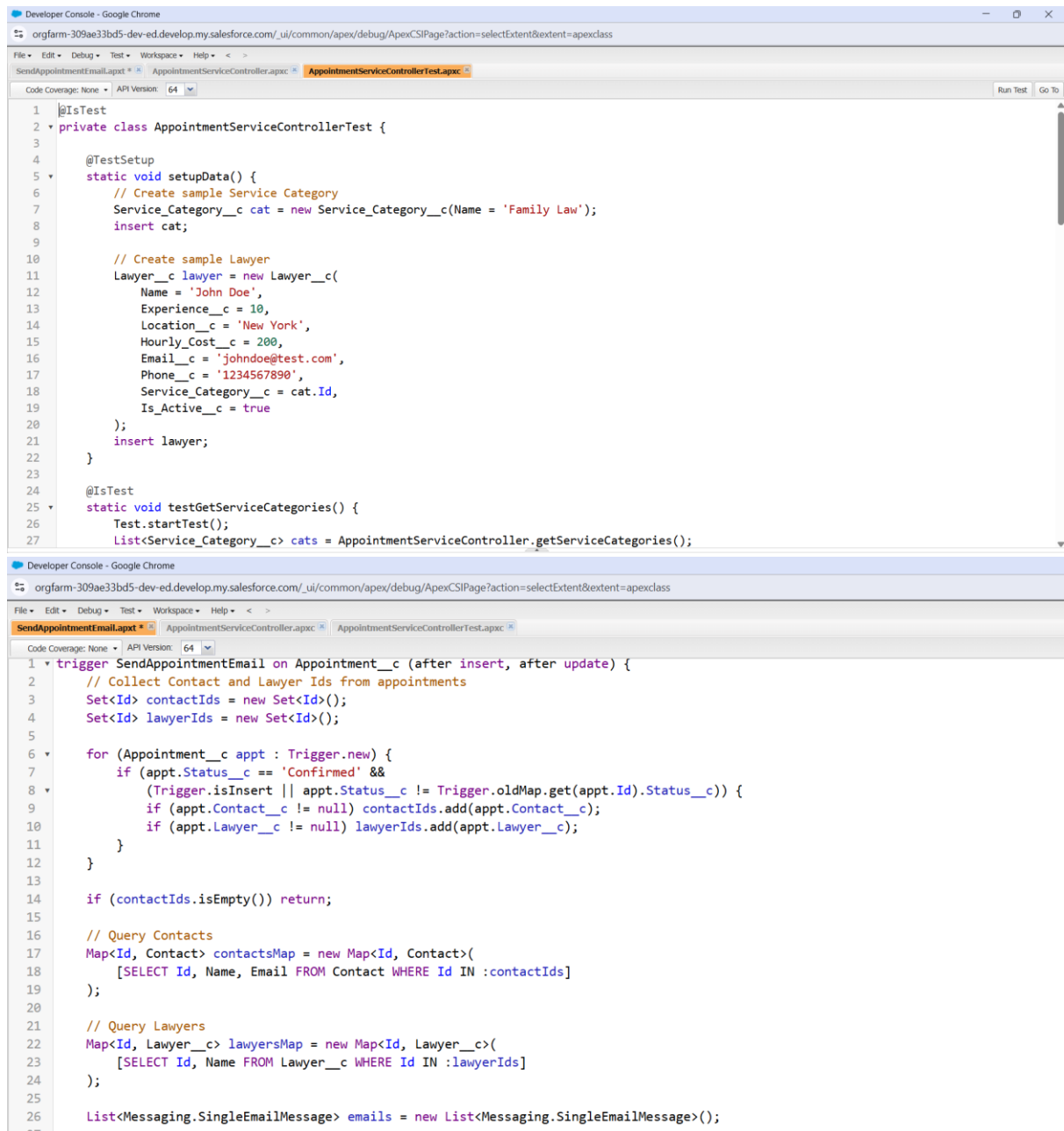
3. Web Services (REST/SOAP)

- Implemented REST callouts to integrate with external systems, such as legal document services or payment gateways.
- Allowed seamless data exchange for appointment confirmations.



The screenshot displays the Salesforce Developer Console with the 'AppointmentServiceController.apex' file open. The code is as follows:

```
1 public with sharing class AppointmentServiceController {
2
3     // Fetch all Service Categories
4     @AuraEnabled(cacheable=true)
5     public static List<Service_Category__c> getServiceCategories() {
6         return [
7             SELECT Id, Name
8             FROM Service_Category__c
9             ORDER BY Name
10        ];
11    }
12
13    // Fetch Lawyers by Category
14    @AuraEnabled(cacheable=true)
15    public static List<Lawyer__c> getLawyersByCategory(Id categoryId) {
16        if (categoryId == null) return new List<Lawyer__c>();
17        return [
18            SELECT Id, Name, Experience__c, Location__c, Hourly_Cost__c, Email__c, Phone__c
19            FROM Lawyer__c
20            WHERE Service_Category__c = :categoryId
21            ORDER BY Name
22        ];
23    }
24
25    // Book an Appointment
26    @AuraEnabled
27    public static Id bookAppointment(String fullName,
```



4. Callouts

- Performed HTTP callouts to external APIs to fetch lawyer availability or send notifications.
- Implemented error handling in Apex to ensure reliability.

5. Platform Events

- Used for real-time notifications when an appointment is booked, updated, or canceled.
- Enabled asynchronous communication with external systems or internal processes.

6. Change Data Capture (CDC)

- Subscribed to CDC events on Appointment__c and Lawyer__c.
- Ensured external systems stayed in sync with Salesforce data changes.

7. Remote Site Settings

- Configured approved endpoints for external API callouts.
- Ensured secure and authorized communication with third-party services.

Outcome:

- Appointments and lawyer data could be shared securely with external systems.
- Real-time updates and notifications ensured both clients and lawyers had accurate information.
- External integrations enhanced the functionality and reliability of the online legal services booking system.