Phase 7: Integration & External Access

Goal: Enable the Leave Tracking app to connect with external systems and services securely.

1. Named Credentials

- Created Named Credentials to securely store API keys and endpoints.
- Example: HRMS API credentials to validate employee leave balances in an external HR system.

2. External Services

- Integrated Salesforce with HR / Payroll systems for leave balance validation.
- Used External Services to import schema and auto-generate Apex classes.

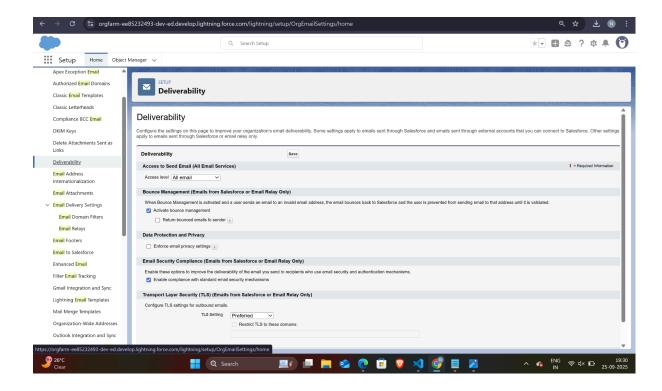
Sample Code (HTTP Callout):

```
public with sharing class LeaveIntegrationService {
   public static void getLeaveBalance(String employeeId) {
      Http http = new Http();
      HttpRequest req = new HttpRequest();
      req.setEndpoint('callout:HR_System/leavebalance/' + employeeId);
      req.setMethod('GET');

      HttpResponse res = http.send(req);
      if(res.getStatusCode() == 200){
            System.debug('Leave Balance: ' + res.getBody());
      } else {
            System.debug('Error: ' + res.getStatus());
      }
    }
}
```

3. Email Service Integration

- Salesforce sends email notifications when leave is approved/rejected.
- Can also integrate with Gmail/Outlook API for two-way sync.



4. Platform Events

- Published a **LeaveRequestEvent**_e when a new leave request is submitted.
- External payroll/attendance systems can subscribe and update their records automatically.

Sample Platform Event Trigger:

5. Change Data Capture (CDC)

- Enabled CDC for the LeaveRequest_c object.
- When leave status changes (Approved / Rejected), external HR tools receive updates instantly.

6. Salesforce Connect

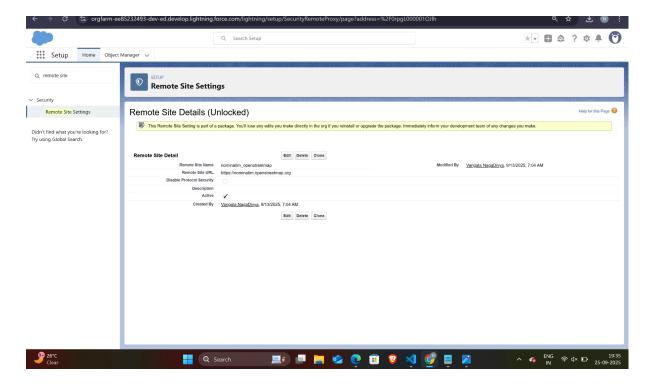
- Configured Salesforce Connect to link an external HR database.
- Employees can view leave balances stored outside Salesforce without data duplication.

7. OAuth & Authentication

- Implemented OAuth 2.0 for secure login when employees access the Employee Self-Service Portal.
- Portal users authenticate with company's Single Sign-On (SSO).

8. Remote Site Settings

• Configured **Remote Site Settings** to allow callouts to HR/Payroll domains (e.g., https://hr.company.com).



Phase 7 Outcome

- Leave requests are validated and synced with external HR systems in real time.
- Managers see accurate leave balances across systems.
- Employees have a seamless experience whether using Salesforce or external portals.
- The app is now integration-ready and scalable for enterprise needs.