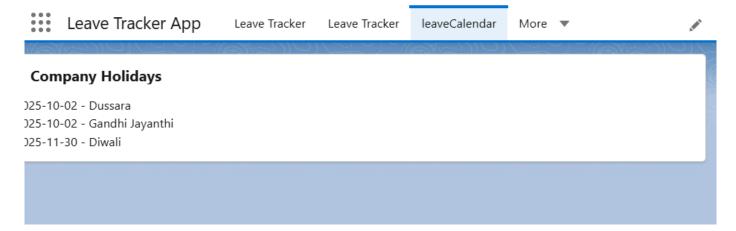
Phase 7: Integration & External Access

Integrations:

Calendar Integrations:

- Google Calendar / Outlook Tab: Embed or sync employee calendars inside Salesforce.
- Purpose: Employees can see leave requests alongside their personal/work calendar to avoid conflicts.

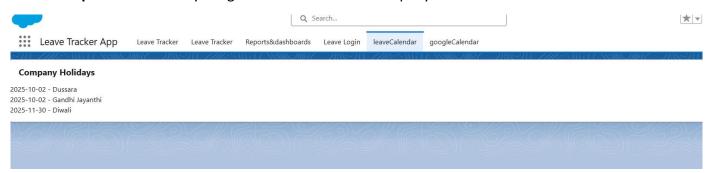


API-Based Integrations (Advanced)

Google Calendar API / Microsoft Graph API:

Automatically push approved leaves to external calendars using Apex or middleware.

• Purpose: Real-time syncing of leave events with company calendars.



Named Credentials Setup

- Define Named Credentials in Salesforce to securely store external service URLs + authentication.
- Example use case: Connecting Salesforce to an HR system API for employee details.

External Services & Callouts

Demonstrate Apex HTTP Callout to fetch leave balance from an external HR system.

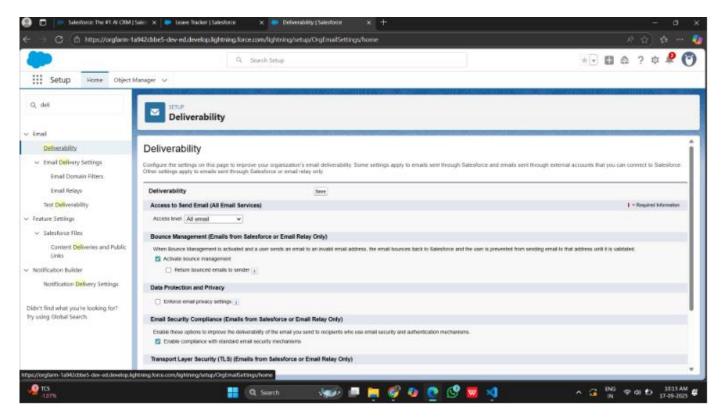
Sample Code (HTTP Callout):

```
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());
   }
}
```

Email Service Integration

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



Platform Events for Real-time Updates

- Use Platform Events to notify external systems (like HR Payroll) when leave status changes.
- Sample Platform Event Trigger:

OAuth & Authentication

- If external API requires OAuth 2.0, connect via Named Credentials → OAuth.
- Secure token handling ensures safe communication.