

Phase 7: Integration & External Access

Salesforce provides several features for **integrating with external systems** and managing secure access. In the context of the **Student Attendance & Performance Tracking System**, most of these features are **optional**, since all data is maintained internally within Salesforce.

1. Named Credentials

- Used to securely store authentication information for external systems.
- **Relevance:** Not required for this project as no external API is used.

2. External Services

- Allows Salesforce to call external APIs declaratively without writing complex code.
- **Relevance:** Not needed for internal attendance and performance tracking.

3. Web Services (REST/SOAP)

- Expose Salesforce data as APIs or consume external APIs.
- **Relevance:** Not needed; all reporting is done internally.

4. Callouts

- Salesforce sending requests to external systems.
- **Relevance:** Not required since no external systems are integrated.

5. Platform Events

- Supports real-time event-driven updates between Salesforce apps.
- **Relevance:** Not required; the project operates on internal updates.

6. Change Data Capture (CDC)

- Tracks changes to Salesforce records in real-time.

- **Relevance:** Optional; internal reporting does not require real-time event capture.

7. Salesforce Connect

- Enables access to external system data as if it were stored in Salesforce.
- **Relevance:** Not needed; all data is stored in custom objects.

8. API Limits

- Defines the maximum number of API calls Salesforce can make per 24 hours.
- **Relevance:** Not applicable; no API calls are performed in this project.

9. OAuth & Authentication

- Provides secure authentication for external system access.
- **Relevance:** Not required; no external system integration.

10. Remote Site Settings

- Allows Salesforce to communicate with external URLs securely.
- **Relevance:** Not required; all operations are internal.

Summary:

All Phase 7 features are **optional** for this project. The **Student Attendance & Performance Tracking System** relies entirely on **internal Salesforce objects, formula fields, reports, and dashboards**, eliminating the need for external integrations or advanced API configurations