Phase 7: Integration & External Access

1. Named Credentials

- Configure **Named Credentials** for secure authentication with external APIs.
- Example: Connect to **property aggregator APIs** (like MagicBricks or 99acres) to fetch external property listings.
- Simplifies authentication (manages endpoint + credentials in one place).

2. External Services

- Use **Schema/Swagger definitions** to integrate REST/SOAP APIs.
- Example: Connect Salesforce with a payment gateway API for booking deposits.
- Example: Link with an external SMS service for sending visit confirmations.

3. Web Services (REST/SOAP)

Salesforce can both **expose** and **consume** web services:

- Expose REST API (Outbound):
 - Allow partner real estate firms to fetch property availability from Salesforce.
 - Example Endpoint: /services/apexrest/Property/{id}
- Consume REST API (Inbound):
 - o Fetch property listings from aggregator sites.
 - Example: Import property details (Location, Price, Status).

4. Callouts

- Use Apex Callouts to connect with external APIs.
- Example: Call **Google Maps API** to validate property location or calculate distance from city center.
- Example: Call **Twilio SMS API** to send visit confirmation texts.

5. Platform Events

- Create **custom Platform Events** for real-time communication across systems.
- Example: When a deal is "Closed Won," fire a platform event:
 - Update external accounting system with booking amount.
 - o Notify customer service team automatically.

6. Change Data Capture (CDC)

- Enable CDC for key objects: Lead, Property, Deal.
- Example: If a property's status changes to "Sold," external partner portals are updated instantly.
- Example: If a Lead is converted → external marketing system removes customer from campaign list.

7. Salesforce Connect (External Objects)

- Connect to an external SQL database of properties without importing into Salesforce.
- Agents can view and filter external property data inside Salesforce as if it were native.

8. API Limits & Best Practices

- Governor Limits: Salesforce enforces daily API call limits → must design integrations efficiently.
- Use Bulk APIs for high-volume data (property imports).
- Use Caching for repeated external calls (like property listings).

9. OAuth & Authentication

- Secure integrations using **OAuth 2.0**.
- Example: Integrate Salesforce with **Google Drive/OneDrive** for property document storage.
- Example: Allow external partners to log in via **OAuth-enabled community portal**.

10. Remote Site Settings

- Before making callouts to an external system, whitelist its URL in Remote Site Settings.
- Example: Add URLs for Twilio, MagicBricks API, Google Maps API.